

Chavira, Raymond

From: Chavira, Raymond
Sent: Friday, March 29, 2013 12:45 PM
To: Parsons, Scott
Cc: Bradley A Barquest (bradley.barquest@utc.com); Tom Perina (tom.perina@ch2m.com)
Subject: RE: PVOU Shallow Zone North of Puente Creek Status

Scott,

Please send me a WORD version of the TOC. Thanks

Ray

From: Parsons, Scott [mailto:Scott.Parsons@tetrattech.com]
Sent: Friday, March 29, 2013 10:08 AM
To: Chavira, Raymond
Cc: Bradley A Barquest (bradley.barquest@utc.com); Tom Perina (tom.perina@ch2m.com)
Subject: FW: PVOU Shallow Zone North of Puente Creek Status

Ray,

The status of the PVOU SZ Reinjection Pilot Study is summarized below. We are scheduled to mobilize on April 1. The memo documenting that UTC will be collecting discrete depth groundwater samples from the piezometer is attached. Also attached are the proposed outline for the Discharge Options Study Report (DOSR; formerly Focused Feasibility Study) and the minutes from the March 20, 2013 technical meeting.

We are scheduling a meeting for early next week with Kerang to discuss the modeling report. We are waiting for Mike Grigorieff to propose dates for the Preliminary Design Meeting.

Updated Piezometer Schedule

Completed:

- Received an EPA approval letter for the reinjection pilot study work plan.
- Retained driller for piezometer drilling (April 1 start).
- Retained other subcontractors including private utility locator, waste management contractor, and surveyor.
- Submitted EPA-approved work plan to DTSC.
- Submitted application to San Gabriel Valley Water Company for injection water.
- Completed utility clearance.
- Retained a mud rotary drilling contractor.
- Reviewed draft preliminary PMW-1 data.
- Met with EPA and proposed work plan revisions to address draft preliminary results from PMW-1
- EPA completed Community Involvement activities
- Submitted to EPA a draft memorandum for the proposed changes to the work plan, which adds depth-discrete groundwater sampling during piezometer borehole drilling by mud rotary method and removes rotosonic drilling at 13811 Amar Road site.

Upcoming:

- Mobilization and piezometer borehole drilling to begin on April 1.

Chavira, Raymond

From: Chavira, Raymond
Sent: Friday, March 29, 2013 12:48 PM
To: Parsons, Scott
Subject: RE: PVOU Shallow Zone North of Puente Creek Status

Thanks

From: Parsons, Scott [<mailto:Scott.Parsons@tetrattech.com>]
Sent: Friday, March 29, 2013 12:43 PM
To: Chavira, Raymond
Cc: Bradley A Barquest (bradley.barquest@utc.com); Tom Perina (tom.perina@ch2m.com)
Subject: RE: PVOU Shallow Zone North of Puente Creek Status

Ray,

The word doc is attached.

From: Chavira, Raymond [<mailto:Chavira.Raymond@epa.gov>]
Sent: Friday, March 29, 2013 12:45 PM
To: Parsons, Scott
Cc: Bradley A Barquest (bradley.barquest@utc.com); Tom Perina (tom.perina@ch2m.com)
Subject: RE: PVOU Shallow Zone North of Puente Creek Status

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Ray

From: Parsons, Scott [<mailto:Scott.Parsons@tetrattech.com>]
Sent: Friday, March 29, 2013 10:08 AM
To: Chavira, Raymond
Cc: Bradley A Barquest (bradley.barquest@utc.com); Tom Perina (tom.perina@ch2m.com)
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Upcoming:

- Mobilization and piezometer borehole drilling to begin on April 1.

Chavira, Raymond

From: Chavira, Raymond
Sent: Monday, April 01, 2013 2:47 PM
To: Parsons, Scott
Cc: Bradley A Barquest (bradley.barquest@utc.com); Tom Perina (tom.perina@ch2m.com)
Subject: RE: PVOU Shallow Zone North of Puente Creek Status

Scott:

Our initial comments on the discrete groundwater sampling memo from UTC:

1. We recommend UTC attempt to drive the Hydropunch deeper than 2 ft into the formation if possible to avoid drilling fluid entering the sampler.
2. Please describe actions if there is leakage of drilling fluid into the driving casing when hydro-punch sampling is attempted, such as a 2nd attempt to sample, etc.
3. Both the discrete sample results and geophysical logs will be reviewed to finalize the piezometer screen intervals.

Ray

Raymond Chavira
Environmental Scientist/Remedial Project Manager
EPA Region IX
75 Hawthorne Street, SFD-7-3
San Francisco, CA 94105-3901
(415) 947-4218
(415) 947-3528 fax

From: Parsons, Scott [<mailto:Scott.Parsons@tetrattech.com>]
Sent: Friday, March 29, 2013 10:08 AM
To: Chavira, Raymond
Cc: Bradley A Barquest (bradley.barquest@utc.com); Tom Perina (tom.perina@ch2m.com)
Subject: FW: PVOU Shallow Zone North of Puente Creek Status

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Upcoming:

- Mobilization and piezometer borehole drilling to begin on April 1.

Chavira, Raymond

From: Lee, Don <Don.Lee@tetrattech.com>
Sent: Tuesday, April 02, 2013 4:14 PM
To: Bradley.Barquest@utc.com;Parsons, Scott;Chavira, Raymond
Subject: 13811 Amar Road drilling update - April 2, 2013

Completed today:

- Drilled to 105'. The last 5' is in coarse gravel.
- Water table is estimated to be at 100'-105' at this location, based on MW6-21 (well) and PMW-1 (e-log) water levels.

Planned for tomorrow:

- Begin hydropunch sampling at approximately 108'

Please call if there are any questions.

Thanks

Don

Don Lee, PG, CHG | Senior Hydrogeologist

Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010

don.lee@tetrattech.com

Tetra Tech

17885 Von Karman Avenue, Suite 500, Irvine, CA 92614-6213 | www.tetrattechgeo.com

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Chavira, Raymond

From: Parsons, Scott <Scott.Parsons@tetrattech.com>
Sent: Tuesday, April 02, 2013 8:23 PM
To: Shu-Fang Orr;Chavira, Raymond;Bradley Barquest
Subject: Fwd: PVOU Shallow Zone North

----- Original message -----

From: "Parsons, Scott" <Scott.Parsons@tetrattech.com>
Date: 03/21/2013 7:56 AM (GMT-08:00)
To: "Shu-Fang Orr (shu-fang.orr@cdph.ca.gov)" <shu-fang.orr@cdph.ca.gov>
Cc: "Moisseeva, Tatiana" <tmoisseeva@geotransinc.com>
Subject: PVOU Shallow Zone North

Shu-Fang,

I'd like to continue the discussion we started at the PVOU Stakeholders' meeting on Tuesday to find out what information we need to provide to you so that DPH can make a determination as to whether or not the PVOU SZ is a potential drinking water source after treatment. Could you either reply with a summary of the information that we should submit or let me know a good time for a call/meeting if think additional discussion is appropriate. Thanks for your assistance.

Scott Parsons | Principal Engineer
Direct: 949.809.5222 | Main: 949.809.5000 | Fax: 949.809.5010
Scott.Parsons@tetrattech.com

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Chavira, Raymond

From: Lee, Don <Don.Lee@tetrattech.com>
Sent: Wednesday, April 03, 2013 9:11 PM
To: Bradley.Barquest@utc.com;Parsons, Scott;Chavira, Raymond
Subject: Drilling update - April 3, 2013

Completed today:

- Hydropunch sampling attempted at 107', 109.5', and 112'. Hard gravel. Drilling mud in samples.
- Hydropunch sampling attempted at 115'. Sample collected although sample appears to contain some drilling mud.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval

Don Lee, PG, CHG | Senior Hydrogeologist

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Chavira, Raymond

From: Lee, Don <Don.Lee@tetrattech.com>
Sent: Thursday, April 04, 2013 4:51 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira, Raymond
Subject: RE: Drilling update - April 4, 2013

Completed today:

- Hydropunch sampling attempted at 120.5'. Sample collected.
- Hydropunch sampling attempted at 130.5'. Gravelly. Sample collected although sample appeared to contain some drilling mud.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

Don Lee, PG, CHG | Senior Hydrogeologist

Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010

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From: Lee, Don
Sent: Wednesday, April 03, 2013 9:14 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov
Subject: Drilling update - April 3, 2013

Completed today:

- Hydropunch sampling attempted at 107', 109.5', and 112'. Hard gravel. Drilling mud in samples.
- Hydropunch sampling attempted at 115'. Sample collected although sample appears to contain some drilling mud.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval

Don Lee, PG, CHG | Senior Hydrogeologist

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Chavira, Raymond

From: Lee, Don <Don.Lee@tetrattech.com>
Sent: Friday, April 05, 2013 4:15 PM
To: Bradley.Barquest@utc.com;Parsons, Scott;Chavira, Raymond
Subject: RE: Drilling update - April 5, 2013

Completed today:

- Hydropunch sampling attempted at 141'. Gravelly. Only able to penetrate 1'. Drilling mud in sample. No sample collected.
- Hydropunch sampling attempted at 146.5'. Soft clay. Dry.
- Hydropunch sampling being attempted at 150'.

Planned for April 8:

- Continue drilling and Hydropunch sampling at 10' interval.

Don Lee, PG, CHG | Senior Hydrogeologist

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From: Lee, Don
Sent: Thursday, April 04, 2013 4:54 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov
Subject: RE: Drilling update - April 4, 2013

Completed today:

- Hydropunch sampling attempted at 120.5'. Sample collected.
- Hydropunch sampling attempted at 130.5'. Gravelly. Sample collected although sample appeared to contain some drilling mud.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

Don Lee, PG, CHG | Senior Hydrogeologist

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From: Lee, Don

Sent: Wednesday, April 03, 2013 9:14 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: Drilling update - April 3, 2013

Completed today:

- Hydropunch sampling attempted at 107', 109.5', and 112'. Hard gravel. Drilling mud in samples.
- Hydropunch sampling attempted at 115'. Sample collected although sample appears to contain some drilling mud.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval

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Chavira, Raymond

From: Lee, Don <Don.Lee@tetrattech.com>
Sent: Friday, April 05, 2013 4:57 PM
To: Bradley.Barquest@utc.com;Parsons, Scott;Chavira, Raymond
Subject: RE: Drilling update - April 5, 2013 (updated)

Completed today:

- Hydropunch sampling attempted at 141'. Gravelly. Only able to penetrate 1'. Drilling mud in sample. No sample collected.
- Hydropunch sampling attempted at 146.5'. Soft clay. Dry.
- Hydropunch sampling attempted at 152'. Groundwater sample was collected.

Planned for April 8:

- Continue drilling and Hydropunch sampling at 10' interval.

Don Lee, PG, CHG | Senior Hydrogeologist

Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010
don.lee@tetrattech.com

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From: Lee, Don
Sent: Friday, April 05, 2013 4:18 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov
Subject: RE: Drilling update - April 5, 2013

Completed today:

- Hydropunch sampling attempted at 141'. Gravelly. Only able to penetrate 1'. Drilling mud in sample. No sample collected.
- Hydropunch sampling attempted at 146.5'. Soft clay. Dry.
- Hydropunch sampling being attempted at 150'.

Planned for April 8:

- Continue drilling and Hydropunch sampling at 10' interval.

Don Lee, PG, CHG | Senior Hydrogeologist

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From: Lee, Don
Sent: Thursday, April 04, 2013 4:54 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov
Subject: RE: Drilling update - April 4, 2013

Completed today:

- Hydropunch sampling attempted at 120.5'. Sample collected.
- Hydropunch sampling attempted at 130.5'. Gravelly. Sample collected although sample appeared to contain some drilling mud.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

Don Lee, PG, CHG | Senior Hydrogeologist
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From: Lee, Don
Sent: Wednesday, April 03, 2013 9:14 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov
Subject: Drilling update - April 3, 2013

Completed today:

- Hydropunch sampling attempted at 107', 109.5', and 112'. Hard gravel. Drilling mud in samples.
- Hydropunch sampling attempted at 115'. Sample collected although sample appears to contain some drilling mud.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval

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Chavira, Raymond

From: Lee, Don <Don.Lee@tetrattech.com>
Sent: Monday, April 08, 2013 4:31 PM
To: Bradley.Barquest@utc.com;Parsons, Scott;Chavira, Raymond;Tom Perina (tom.perina@ch2m.com)
Subject: FW: Drilling update - April 8, 2013

Completed today:

- Hydropunch sampling attempted at 161'. Groundwater sample was collected.
- Hydropunch sampling attempted at 170.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

Don Lee, PG, CHG | Senior Hydrogeologist

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From: Lee, Don
Sent: Friday, April 05, 2013 5:01 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov
Subject: RE: Drilling update - April 5, 2013 (updated)

Completed today:

- Hydropunch sampling attempted at 141'. Gravelly. Only able to penetrate 1'. Drilling mud in sample. No sample collected.
- Hydropunch sampling attempted at 146.5'. Soft clay. Dry.
- Hydropunch sampling attempted at 152'. Groundwater sample was collected.

Planned for April 8:

- Continue drilling and Hydropunch sampling at 10' interval.

Don Lee, PG, CHG | Senior Hydrogeologist

Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010

don.lee@tetrattech.com

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Don Lee, PG, CHG | Senior Hydrogeologist
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Planned for tomorrow:

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Sent: Wednesday, April 03, 2013 9:14 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov
Subject: Drilling update - April 3, 2013

Completed today:

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Planned for tomorrow:

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Don Lee, PG, CHG | Senior Hydrogeologist

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Chavira, Raymond

From: Lee, Don <Don.Lee@tetrattech.com>
Sent: Tuesday, April 09, 2013 3:28 PM
To: Bradley.Barquest@utc.com;Parsons, Scott;Chavira, Raymond;Tom Perina (tom.perina@ch2m.com)
Subject: RE: Drilling update - April 9, 2013

Completed today:

- Hydropunch sampling attempted at 181'. Groundwater sample was collected.
- Hydropunch sampling attempted at 191'. Groundwater sample was collected.
- Hydropunch sampling attempted at 200'. Drilling mud was detected inside sampling rods before opening the Hydropunch sampler. No groundwater sample was collected.

Planned for tomorrow:

- Drill to 203' and attempt Hydropunch sampling at approximately 206'.
- Continue drilling and Hydropunch sampling at 10' interval.

Please call if there are any questions.

Thanks
Don

Don Lee, PG, CHG | Senior Hydrogeologist
Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010
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From: Lee, Don
Sent: Monday, April 08, 2013 4:34 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)
Subject: FW: Drilling update - April 8, 2013

Completed today:

- Hydropunch sampling attempted at 161'. Groundwater sample was collected.
- Hydropunch sampling attempted at 170.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

Don Lee, PG, CHG | Senior Hydrogeologist
Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010
don.lee@tetrattech.com

Tetra Tech

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Sent: Friday, April 05, 2013 5:01 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: RE: Drilling update - April 5, 2013 (updated)

Completed today:

- Hydropunch sampling attempted at 141'. Gravelly. Only able to penetrate 1'. Drilling mud in sample. No sample collected.
- Hydropunch sampling attempted at 146.5'. Soft clay. Dry.
- Hydropunch sampling attempted at 152'. Groundwater sample was collected.

Planned for April 8:

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Subject: RE: Drilling update - April 4, 2013

Completed today:

- Hydropunch sampling attempted at 120.5'. Sample collected.
- Hydropunch sampling attempted at 130.5'. Gravelly. Sample collected although sample appeared to contain some drilling mud.

Planned for tomorrow:

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From: Lee, Don
Sent: Wednesday, April 03, 2013 9:14 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov
Subject: Drilling update - April 3, 2013

Completed today:

- Hydropunch sampling attempted at 107', 109.5', and 112'. Hard gravel. Drilling mud in samples.
- Hydropunch sampling attempted at 115'. Sample collected although sample appears to contain some drilling mud.

Planned for tomorrow:

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Chavira, Raymond

From: Lee, Don <Don.Lee@tetrattech.com>
Sent: Wednesday, April 10, 2013 8:07 PM
To: Bradley.Barquest@utc.com;Parsons, Scott;Chavira, Raymond;Tom Perina (tom.perina@ch2m.com)
Subject: RE: Drilling update - April 10, 2013

Completed today:

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- Hydropunch sampling attempted at 210.5 '. Groundwater sample was collected.
- Hydropunch sampling attempted at 219.5'. Groundwater sample was collected.

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Please call if there are any questions.

Thanks
Don

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Subject: RE: Drilling update - April 9, 2013

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Planned for tomorrow:

- Drill to 203' and attempt Hydropunch sampling at approximately 206'.
- Continue drilling and Hydropunch sampling at 10' interval.

Please call if there are any questions.

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Don

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Planned for April 8:

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Planned for April 8:

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To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov
Subject: RE: Drilling update - April 4, 2013

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Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

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To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov
Subject: Drilling update - April 3, 2013

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Planned for tomorrow:

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Chavira, Raymond

From: Lee, Don <Don.Lee@tetrattech.com>
Sent: Friday, April 12, 2013 8:02 AM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira, Raymond; Tom Perina (tom.perina@ch2m.com)
Subject: RE: Drilling update - April 11, 2013

Completed on April 11:

- Hydropunch sampling attempted at 228'. Gravelly soil. Drilling mud was detected inside Hydropunch sampler. No groundwater sample was collected.
- Pull drilling rods and drill out blockage (likely cobbles) up inside drill shoe. Trip down drilling rods.

Planned for April 12:

- Continue drilling and Hydropunch sampling at 10' interval.

Please call if there are any questions.

Thanks
Don

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From: Lee, Don
Sent: Wednesday, April 10, 2013 8:10 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)
Subject: RE: Drilling update - April 10, 2013

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Chavira, Raymond

From: Parsons, Scott <Scott.Parsons@tetrattech.com>
Sent: Monday, April 15, 2013 12:48 PM
To: Chavira, Raymond
Cc: Lee, Don;Bradley Barquest
Subject: Piezometer

Ray,

We are currently at 265 feet bgs and should hit 275 feet bgs (the total borehole depth per the work plan) by the end of the day. Per our discussion on Friday, we will continue drilling until we reach a total depth of 300 feet bgs. We will continue to collect discrete depth groundwater samples at 10-foot increments. the final sample will be collected at approximately 302 feet bgs (approximately 2 feet below the total depth of the borehole).

Chavira, Raymond

From: Chavira, Raymond
Sent: Monday, April 15, 2013 2:47 PM
To: Parsons, Scott
Cc: Lee, Don; Bradley Barquest; Tom.Perina@CH2M.com; Kerang Sun
Subject: RE: Piezometer

Scott,

We recommend drilling deeper to 340-350 feet.

We would like to see the discrete depth sampling results below 170 feet and throughout the shallow zone. We need to see a complete water quality and lithology profile through 350 feet to determine concentrations at depth and fine grain units separating the SZ and IZ. Also we suggest evaluating (QA/QC) the reliability of 1,4 dioxane results and if they would change for longer holding times. To date we see NDs.

After we have seen the discrete depth water quality data down to 350 feet, you can run the elog to determine screen depths for your three-well nested cluster, install, and sample to confirm the discrete depth results.

Once we have the data we can decide how to best proceed.

We are available for call today to discuss further

Ray

Raymond Chavira
Environmental Scientist/Remedial Project Manager
EPA Region IX
75 Hawthorne Street, SFD-7-3
San Francisco, CA 94105-3901
(415) 947-4218
(415) 947-3528 fax

From: Parsons, Scott [<mailto:Scott.Parsons@tetrattech.com>]
Sent: Monday, April 15, 2013 12:48 PM
To: Chavira, Raymond
Cc: Lee, Don; Bradley Barquest
Subject: Piezometer

Ray,

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Chavira, Raymond

From: Barquest, Bradley A UTCHQ <Bradley.Barquest@utc.com>
Sent: Monday, April 15, 2013 2:47 PM
To: Chavira, Raymond
Subject: Automatic reply: Piezometer

I will be out of the office Monday April 15, 2013 through Wednesday April 17, 2013, and will have limited access to e-mails and only limited access to telephones during that time. Thank you

Chavira, Raymond

Subject: Piezometer Drilling
Location: Live Meeting

Start: Tue 4/16/2013 9:00 AM
End: Tue 4/16/2013 10:00 AM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Organizer: Skuba, Lauren

-+-----+-----+-----+-----+-----+-----+-----+-----+-

LAUREN SKUBA has invited you to attend an online meeting using Microsoft® Office Live Meeting service.

[Join the meeting](#)

AUDIO INFORMATION

Telephone Conferencing

Choose one of the following:

- Start the Office Live Meeting client, and then in the Voice & Video pane, click Join Conference. The conferencing service will call you at the number you specify. (Recommended)
- Dial the conferencing service directly, and enter the participant code shown below:
Toll-free: +1-8666925721
Toll: +1-5174449940
Participant Code: 3594177

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To save time before the meeting, [check your system](#) to make sure it is ready to use Office Live Meeting.

TROUBLESHOOTING

Unable to join the meeting? Follow these steps:

1. Copy this address and paste into your web browser:
<https://www.livemeeting.com/cc/tetrattech/join>
2. Copy and paste the required information:
Meeting ID: 4FBDB2
Location: <https://www.livemeeting.com/cc/tetrattech>

If you still cannot enter the meeting, [contact support](#).

NOTICE

Office Live Meeting can be used to record meetings. By participating in this meeting, you agree that your communications may be monitored or recorded at any time during the meeting.

Chavira, Raymond

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Recurrence: (none)

Meeting Status: Not yet responded

Organizer: Skuba, Lauren

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Telephone Conferencing

Choose one of the following:

- Start the Office Live Meeting client, and then in the Voice & Video pane, click Join Conference. The conferencing service will call you at the number you specify. (Recommended)
- Dial the conferencing service directly, and enter the participant code shown below:
Toll-free: +1-8666925721
Toll: +1-5174449940
Participant Code: 3594177

FIRST-TIME USERS

To save time before the meeting, [check your system](#) to make sure it is ready to use Office Live Meeting.

TROUBLESHOOTING

Unable to join the meeting? Follow these steps:

1. Copy this address and paste into your web browser:
<https://www.livemeeting.com/cc/tetrattech/join>
2. Copy and paste the required information:
Meeting ID: 4FBDB2
Location: <https://www.livemeeting.com/cc/tetrattech>

If you still cannot enter the meeting, [contact support](#).

NOTICE

Office Live Meeting can be used to record meetings. By participating in this meeting, you agree that your communications may be monitored or recorded at any time during the meeting.

Chavira, Raymond

From: Chavira, Raymond
Sent: Monday, April 15, 2013 5:26 PM
To: Lee, Don; Bradley.Barquest@utc.com; Parsons, Scott; Tom Perina (tom.perina@ch2m.com)
Cc: Bradley.Barquest@comcast.net; Kerang.Sun@CH2M.com
Subject: RE: Drilling update - April 15, 2013

Subject to our call tomorrow morning, we are recommending drilling to through the bottom of the SZ to an estimated 350 feet. More importantly, we need to be able to review all discrete depth groundwater data before cessation of drilling and subsequent e-logging.

Thank you for your attention in this matter

Ray

Raymond Chavira
Environmental Scientist/Remedial Project Manager
EPA Region IX
75 Hawthorne Street, SFD-7-3
San Francisco, CA 94105-3901
(415) 947-4218
(415) 947-3528 fax

From: Lee, Don [<mailto:Don.Lee@tetrattech.com>]
Sent: Monday, April 15, 2013 5:13 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira, Raymond; Tom Perina (tom.perina@ch2m.com)
Cc: Bradley.Barquest@comcast.net
Subject: RE: Drilling update - April 15, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date. VOC concentrations in several samples are above the MCLs.

Completed today:

- Hydropunch sampling attempted at 260.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 270.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 280.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at approximately 10' interval.

Please call if there are any questions.

Thanks

Don

Don Lee, PG, CHG | Senior Hydrogeologist

Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010

don.lee@tetrattech.com

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From: Lee, Don

Sent: Friday, April 12, 2013 6:32 PM

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Subject: RE: Drilling update - April 12, 2013

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- Depth of 275' may be reached late Monday April 15 or Tuesday morning.
- Ream borehole on April 16.
- Geophysical logging on April 17.

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Subject: RE: Drilling update - April 11, 2013

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Sent: Wednesday, April 10, 2013 8:10 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Subject: RE: Drilling update - April 10, 2013

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Sent: Tuesday, April 09, 2013 3:30 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Subject: RE: Drilling update - April 9, 2013

Completed today:

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From: Lee, Don

Sent: Monday, April 08, 2013 4:34 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Subject: FW: Drilling update - April 8, 2013

Completed today:

- Hydropunch sampling attempted at 161'. Groundwater sample was collected.
- Hydropunch sampling attempted at 170.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

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From: Lee, Don

Sent: Friday, April 05, 2013 5:01 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: RE: Drilling update - April 5, 2013 (updated)

Completed today:

- Hydropunch sampling attempted at 141'. Gravelly. Only able to penetrate 1'. Drilling mud in sample. No sample collected.
- Hydropunch sampling attempted at 146.5'. Soft clay. Dry.
- Hydropunch sampling attempted at 152'. Groundwater sample was collected.

Planned for April 8:

- Continue drilling and Hydropunch sampling at 10' interval.

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- Hydropunch sampling attempted at 141'. Gravelly. Only able to penetrate 1'. Drilling mud in sample. No sample collected.
- Hydropunch sampling attempted at 146.5'. Soft clay. Dry.
- Hydropunch sampling being attempted at 150'.

Planned for April 8:

- Continue drilling and Hydropunch sampling at 10' interval.

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From: Lee, Don

Sent: Thursday, April 04, 2013 4:54 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: RE: Drilling update - April 4, 2013

Completed today:

- Hydropunch sampling attempted at 120.5'. Sample collected.
- Hydropunch sampling attempted at 130.5'. Gravelly. Sample collected although sample appeared to contain some drilling mud.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

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From: Lee, Don

Sent: Wednesday, April 03, 2013 9:14 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: Drilling update - April 3, 2013

Completed today:

- Hydropunch sampling attempted at 107', 109.5', and 112'. Hard gravel. Drilling mud in samples.
- Hydropunch sampling attempted at 115'. Sample collected although sample appears to contain some drilling mud.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval

Don Lee, PG, CHG | Senior Hydrogeologist

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Chavira, Raymond

Subject: Piezometer Drilling
Location: Live Meeting

Start: Tue 4/16/2013 9:00 AM
End: Tue 4/16/2013 10:00 AM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Organizer: Skuba, Lauren

-+-----+-----+-----+-----+-----+-----+-----+-----+-

LAUREN SKUBA has invited you to attend an online meeting using Microsoft® Office Live Meeting service.

[Join the meeting](#)

AUDIO INFORMATION

Telephone Conferencing

Choose one of the following:

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Participant Code: 3594177

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TROUBLESHOOTING

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Chavira, Raymond

From: Kerang.Sun@CH2M.com
Sent: Tuesday, April 16, 2013 12:07 PM
To: Scott.Parsons@tetrattech.com
Cc: Chavira, Raymond; Don.Lee@tetrattech.com
Subject: RE: Drilling update - April 15, 2013

Thanks, Scott.

Kerang

Kerang Sun, Ph.D., P.G.

CH2M HILL
6 Hutton Centre Dr. Suite 700
Santa Ana, CA 92707
Tel: (714) 435-6324
Fax: (714) 424-2238

From: Parsons, Scott [mailto:Scott.Parsons@tetrattech.com]
Sent: Tuesday, April 16, 2013 12:01 PM
To: Sun, Kerang/SCO
Cc: Chavira.Raymond@epamail.epa.gov; Lee, Don
Subject: FW: Drilling update - April 15, 2013

Kerang,

You were not included in the distribution of this email that went out yesterday with water quality results. We will include you on subsequent drilling updates.

From: Lee, Don
Sent: Monday, April 15, 2013 5:13 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)
Cc: Bradley.Barquest@comcast.net
Subject: RE: Drilling update - April 15, 2013

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Sent: Friday, April 12, 2013 6:32 PM

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- Hydropunch sampling attempted at 239'. Groundwater sample was collected.
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Planned for tomorrow:

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Sent: Friday, April 05, 2013 5:01 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov
Subject: RE: Drilling update - April 5, 2013 (updated)

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- Hydropunch sampling attempted at 146.5'. Soft clay. Dry.
- Hydropunch sampling attempted at 152'. Groundwater sample was collected.

Planned for April 8:

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Sent: Thursday, April 04, 2013 4:54 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov
Subject: RE: Drilling update - April 4, 2013

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From: Lee, Don

Sent: Wednesday, April 03, 2013 9:14 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: Drilling update - April 3, 2013

Completed today:

- Hydropunch sampling attempted at 107', 109.5', and 112'. Hard gravel. Drilling mud in samples.
- Hydropunch sampling attempted at 115'. Sample collected although sample appears to contain some drilling mud.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval

Don Lee, PG, CHG | Senior Hydrogeologist

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Chavira, Raymond

From: Chavira, Raymond
Sent: Tuesday, April 16, 2013 12:27 PM
To: Lee, Don; Bradley.Barquest@utc.com; Parsons, Scott; Tom Perina (tom.perina@ch2m.com)
Cc: Kerang.Sun@CH2M.com
Subject: RE: Drilling update - April 15, 2013

Scott,

I would like to follow up on our discussion from today and check in on Friday April 19th. Can we do a call at 9:15 am – 10:00?

Ray

From: Lee, Don [mailto:Don.Lee@tetrattech.com]
Sent: Monday, April 15, 2013 5:13 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira, Raymond; Tom Perina (tom.perina@ch2m.com)
Cc: Bradley.Barquest@comcast.net
Subject: RE: Drilling update - April 15, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date. VOC concentrations in several samples are above the MCLs.

Completed today:

- Hydropunch sampling attempted at 260.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 270.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 280.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at approximately 10' interval.

Please call if there are any questions.

Thanks

Don

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From: Lee, Don
Sent: Friday, April 12, 2013 6:32 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina

(tom.perina@ch2m.com)

Subject: RE: Drilling update - April 12, 2013

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Completed today:

- Hydropunch sampling attempted at 239'. Groundwater sample was collected.
- Hydropunch sampling attempted at 250'. Gravelly soil. Drilling mud was detected inside sampling rods before opening the Hydropunch sampler. No groundwater sample was collected.
- Hydropunch sampling attempted at 253'. Groundwater sample was collected.

Planned for April 15:

- Continue drilling and Hydropunch sampling at approximately 10' interval.
- Depth of 275' may be reached late Monday April 15 or Tuesday morning.
- Ream borehole on April 16.
- Geophysical logging on April 17.

Please call if there are any questions.

Thanks

Don

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From: Lee, Don

Sent: Friday, April 12, 2013 8:06 AM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Subject: RE: Drilling update - April 11, 2013

Completed on April 11:

- Hydropunch sampling attempted at 228'. Gravelly soil. Drilling mud was detected inside Hydropunch sampler. No groundwater sample was collected.
- Pull drilling rods and drill out blockage (likely cobbles) up inside drill shoe. Trip down drilling rods.

Planned for April 12:

- Continue drilling and Hydropunch sampling at 10' interval.

Please call if there are any questions.

Thanks

Don

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From: Lee, Don

Sent: Wednesday, April 10, 2013 8:10 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Subject: RE: Drilling update - April 10, 2013

Completed today:

- Hydropunch sampling attempted at 204'. Groundwater sample was collected.
- Hydropunch sampling attempted at 210.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 219.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

Please call if there are any questions.

Thanks

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From: Lee, Don

Sent: Tuesday, April 09, 2013 3:30 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Subject: RE: Drilling update - April 9, 2013

Completed today:

- Hydropunch sampling attempted at 181'. Groundwater sample was collected.
- Hydropunch sampling attempted at 191'. Groundwater sample was collected.
- Hydropunch sampling attempted at 200'. Drilling mud was detected inside sampling rods before opening the Hydropunch sampler. No groundwater sample was collected.

Planned for tomorrow:

- Drill to 203' and attempt Hydropunch sampling at approximately 206'.
- Continue drilling and Hydropunch sampling at 10' interval.

Please call if there are any questions.

Thanks
Don

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From: Lee, Don

Sent: Monday, April 08, 2013 4:34 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Subject: FW: Drilling update - April 8, 2013

Completed today:

- Hydropunch sampling attempted at 161'. Groundwater sample was collected.
- Hydropunch sampling attempted at 170.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

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From: Lee, Don

Sent: Friday, April 05, 2013 5:01 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: RE: Drilling update - April 5, 2013 (updated)

Completed today:

- Hydropunch sampling attempted at 141'. Gravelly. Only able to penetrate 1'. Drilling mud in sample. No sample collected.
- Hydropunch sampling attempted at 146.5'. Soft clay. Dry.
- Hydropunch sampling attempted at 152'. Groundwater sample was collected.

Planned for April 8:

- Continue drilling and Hydropunch sampling at 10' interval.

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From: Lee, Don
Sent: Friday, April 05, 2013 4:18 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov
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Completed today:

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- Hydropunch sampling being attempted at 150'.

Planned for April 8:

- Continue drilling and Hydropunch sampling at 10' interval.

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From: Lee, Don
Sent: Thursday, April 04, 2013 4:54 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov
Subject: RE: Drilling update - April 4, 2013

Completed today:

- Hydropunch sampling attempted at 120.5'. Sample collected.
- Hydropunch sampling attempted at 130.5'. Gravelly. Sample collected although sample appeared to contain some drilling mud.

Planned for tomorrow:

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Chavira, Raymond

From: Parsons, Scott <Scott.Parsons@tetrattech.com>
Sent: Tuesday, April 16, 2013 12:37 PM
To: Chavira, Raymond
Subject: RE: Drilling update - April 15, 2013

I think Brad returns from Hartford later on Friday. Can you do the call later on Friday if that is the case?

From: Chavira, Raymond [mailto:Chavira.Raymond@epa.gov]
Sent: Tuesday, April 16, 2013 12:27 PM
To: Lee, Don; Bradley.Barquest@utc.com; Parsons, Scott; Tom Perina (tom.perina@ch2m.com)
Cc: Kerang.Sun@CH2M.com
Subject: RE: Drilling update - April 15, 2013

Scott,

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Sent: Monday, April 15, 2013 5:13 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira, Raymond; Tom Perina (tom.perina@ch2m.com)
Cc: Bradley.Barquest@comcast.net
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From: Lee, Don
Sent: Friday, April 12, 2013 6:32 PM
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Please call if there are any questions.

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Sent: Friday, April 12, 2013 8:06 AM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)
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Sent: Wednesday, April 10, 2013 8:10 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)
Subject: RE: Drilling update - April 10, 2013

Completed today:

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To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)
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To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Subject: FW: Drilling update - April 8, 2013

Completed today:

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- Hydropunch sampling attempted at 170.5'. Groundwater sample was collected.

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Completed today:

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Chavira, Raymond

From: Parsons, Scott <Scott.Parsons@tetrattech.com>
Sent: Tuesday, April 16, 2013 5:56 PM
To: Chavira, Raymond;Kerang Sun
Subject: Friday call

Kwang, can you send your potential well locations for the next pvou SZ well at the Mov ? We'd like to compare notes and discuss on the call Friday

Sent from Sam

Chavira, Raymond

From: Tom.Perina@CH2M.com
Sent: Tuesday, April 16, 2013 6:14 PM
To: Chavira, Raymond;Kerang.Sun@CH2M.com
Subject: RE: Friday call

Will do. Kerang will also send UTC the data packages (DD results, logs, maps only) from CDM/NG later this week.
Tom

From: Chavira, Raymond [mailto:Chavira.Raymond@epa.gov]
Sent: Tuesday, April 16, 2013 6:09 PM
To: Sun, Kerang/SCO; Perina, Tom/RIV
Subject: FW: Friday call

I spoke to Scott briefly. He acknowledges the need to characterize the extent of contamination at least in areas near where we propose to re-inject. In light of this as soon as we receive more discrete depth data from CDM from the step out boring near MW6-9i, we should update the map sent this morning with a few proposed locations of additional characterization. Obviously we are only working with DD sample results and should caveat as for discussion purposes only subject to additional data, etc

Ray

From: Parsons, Scott [mailto:Scott.Parsons@tetrattech.com]
Sent: Tuesday, April 16, 2013 5:56 PM
To: Chavira, Raymond; Kerang Sun
Subject: Friday call

Kwang, can you send your potential well locations for the next pvou SZ well at the Mov ? We'd like to compare notes and discuss on the call Friday

Sent from Sam

Chavira, Raymond

From: Lee, Don <Don.Lee@tetrattech.com>
Sent: Wednesday, April 17, 2013 12:24 PM
To: Tom Perina (tom.perina@ch2m.com)
Cc: Chavira, Raymond;Parsons, Scott
Subject: First half 2013 groundwater monitoring

Tom,

We sent you the sampling plan for the May groundwater sampling event "App G_Draft RFA 1st half 2013.xlsx" on March 18, 2013, and we would appreciate your feedback soon so we can prepare.

Please call if you have any questions.

Thanks
Don

Don Lee, PG, CHG | Senior Hydrogeologist
Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010
don.lee@tetrattech.com

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Chavira, Raymond

From: Tom.Perina@CH2M.com
Sent: Wednesday, April 17, 2013 1:01 PM
To: Don.Lee@tetrattech.com
Cc: Chavira, Raymond; Scott.Parsons@tetrattech.com
Subject: RE: First half 2013 groundwater monitoring

Don,

I don't see that March 18 e-mail in my in-box. Can you please re-send?

Tom

From: Lee, Don [mailto:Don.Lee@tetrattech.com]
Sent: Wednesday, April 17, 2013 12:24 PM
To: Perina, Tom/RIV
Cc: Chavira, Raymond (Chavira.Raymond@epa.gov); Parsons, Scott
Subject: First half 2013 groundwater monitoring

Tom,

We sent you the sampling plan for the May groundwater sampling event "App G_Draft RFA 1st half 2013.xlsx" on March 18, 2013, and we would appreciate your feedback soon so we can prepare.

Please call if you have any questions.

Thanks
Don

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Chavira, Raymond

From: Kerang.Sun@CH2M.com
Sent: Wednesday, April 17, 2013 3:37 PM
To: Scott.Parsons@tetrattech.com
Cc: bradley.barquest@utc.com;Chavira, Raymond;Tom.Perina@CH2M.com

I am going to send the subsequent data to Scott only...

Kerang Sun, Ph.D., P.G.

CH2M HILL
6 Hutton Centre Dr. Suite 700
Santa Ana, CA 92707
Tel: (714) 435-6324
Fax: (714) 424-2238

From: Sun, Kerang/SCO
Sent: Wednesday, April 17, 2013 3:24 PM
To: 'Parsons, Scott'
Cc: Bradley A Barquest (bradley.barquest@utc.com); 'Chavira, Raymond'; Perina, Tom/RIV
Subject: IZ data - location ma

Hi, Scott,

Per our discussion, I am sending you the geological and contaminant concentration data CDM collected as part of the IZ compliance/monitoring well installation program. I will send you the data as attachment to several emails.

Attached to this email is the map showing the locations of the newly installed wells. Watch for more emails to follow...

Thanks,

Kerang

Kerang Sun, Ph. D., P. G.
Project Consultant
Environmental Services
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Santa Ana, CA 92707
Direct 714.435.6324
Fax 714.424.2238
www.ch2mhill.com

Chavira, Raymond

From: Parsons, Scott <Scott.Parsons@tetrattech.com>
Sent: Wednesday, April 17, 2013 4:08 PM
To: Kerang.Sun@CH2M.com
Cc: Chavira, Raymond
Subject: RE: Two additional files for B4/MW6-22D location...

Thanks Kerang. Can you send over your suggested location for a new PVOU SZ monitoring well at the toe of the Eastern Plume? We would like to discuss at our call on Friday.

From: Kerang.Sun@CH2M.com [Kerang.Sun@CH2M.com]
Sent: Wednesday, April 17, 2013 5:53 PM
To: Parsons, Scott
Subject: Two additional files for B4/MW6-22D location...

This concludes the data transfer for now.

I am expecting to see the updated summary for depth-discrete sampling results for the step out locations at MW6-9i. Will pass it to you once I receive it.

Thanks,

Kerang

Chavira, Raymond

From: Kerang.Sun@CH2M.com
Sent: Wednesday, April 17, 2013 4:38 PM
To: Scott.Parsons@tetrattech.com
Cc: Chavira, Raymond
Subject: RE: Two additional files for B4/MW6-22D location...

I will, after updating by posting the data I got today.

Kerang Sun, Ph.D., P.G.
CH2M HILL
6 Hutton Centre Dr. Suite 700
Santa Ana, CA 92707
Tel: (714) 435-6324
Fax: (714) 424-2238

-----Original Message-----

From: Parsons, Scott [mailto:Scott.Parsons@tetrattech.com]
Sent: Wednesday, April 17, 2013 4:08 PM
To: Sun, Kerang/SCO
Cc: Raymond Chavira
Subject: RE: Two additional files for B4/MW6-22D location...

Thanks Kerang. Can you send over your suggested location for a new PVOU SZ monitoring well at the toe of the Eastern Plume? We would like to discuss at our call on Friday.

From: Kerang.Sun@CH2M.com [Kerang.Sun@CH2M.com]
Sent: Wednesday, April 17, 2013 5:53 PM
To: Parsons, Scott
Subject: Two additional files for B4/MW6-22D location...

This concludes the data transfer for now.

I am expecting to see the updated summary for depth-discrete sampling results for the step out locations at MW6-9i. Will pass it to you once I receive it.

Thanks,

Kerang

Chavira, Raymond

From: scottp92692 <scottp92692@gmail.com>
Sent: Thursday, April 18, 2013 6:13 AM
To: Chavira, Raymond
Cc: Tom Perina; Lee, Don; Bradley Barquest; Mercer, Jim
Subject: Piezometer Drilling Field Variance

Ray,

Pursuant to our telephone conversation, Tetra Tech will advance the piezometer borehole to approximately 340 feet below ground surface(bgs) rather the depth of 275 feet bgs that is specified in the Work Plan. Discrete-depth groundwater samples will be collected at approximately 10-foot intervals with the final discrete-depth groundwater samples being collected at approximately 343 feet bgs. Once the total depth of approximately 340 feet bgs is reached and the final discrete-depth groundwater sample is collected, drilling will be terminated at this location and geophysical logging will be performed.

Sent via the Samsung Galaxy Note® II, an AT&T 4G LTE smartphone

Chavira, Raymond

From: Lee, Don <Don.Lee@tetrattech.com>
Sent: Thursday, April 18, 2013 4:40 PM
To: Bradley.Barquest@utc.com;Parsons, Scott;Chavira, Raymond;Tom Perina (tom.perina@ch2m.com);Kerang.Sun@CH2M.com
Cc: Brad.Barquest@comcast.net
Subject: RE: 13811 Amar Road piezometer drilling update - April 18, 2013

Completed today:

- Hydropunch sampling attempted at 320.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 330'. Groundwater sample was collected.

Planned for tomorrow:

- Drill to 340' and collect last Hydropunch sample at approximately 343'.
- Geophysical logging.

Please call if there are any questions.

Thanks
Don

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don.lee@tetrattech.com

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From: Lee, Don
Sent: Wednesday, April 17, 2013 3:45 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Cc: 'Brad.Barquest@comcast.net'
Subject: RE: 13811 Amar Road piezometer drilling update - April 17, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date (Sample results to 270.5').

Completed today:

- Hydropunch sampling attempted at 300'. Groundwater sample was collected.
- Hydropunch sampling attempted at 310'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at approximately 10' interval.

Please call if there are any questions.

Thanks

Don

Don Lee, PG, CHG | Senior Hydrogeologist

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From: Lee, Don

Sent: Tuesday, April 16, 2013 5:06 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com

Cc: 'Bradley.Barquest@comcast.net'

Subject: 13811 Amar Road piezometer drilling update - April 16, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date (Sample results to 253'). The current plan is to extend the drilling and depth-discrete groundwater sampling from 275 feet depth to approximately 340 feet depth.

Completed today:

- Hydropunch sampling attempted at 290'. Gravelly soil. Drilling mud was observed inside Hydropunch sampler. No groundwater sample was collected.
- Hydropunch sampling attempted at 293.5'. Dry even after opening additional length of sampler screen.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at approximately 10' interval.

Please call if there are any questions.

Thanks

Don

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From: Lee, Don

Sent: Monday, April 15, 2013 5:16 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Cc: 'Bradley.Barquest@comcast.net'

Subject: RE: Drilling update - April 15, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date. VOC concentrations in several samples are above the MCLs.

Completed today:

- Hydropunch sampling attempted at 260.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 270.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 280.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at approximately 10' interval.

Please call if there are any questions.

Thanks

Don

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From: Lee, Don

Sent: Friday, April 12, 2013 6:32 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Subject: RE: Drilling update - April 12, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date. VOC concentrations in several samples are above the MCLs.

Completed today:

- Hydropunch sampling attempted at 239'. Groundwater sample was collected.
- Hydropunch sampling attempted at 250'. Gravelly soil. Drilling mud was detected inside sampling rods before opening the Hydropunch sampler. No groundwater sample was collected.
- Hydropunch sampling attempted at 253'. Groundwater sample was collected.

Planned for April 15:

- Continue drilling and Hydropunch sampling at approximately 10' interval.
- Depth of 275' may be reached late Monday April 15 or Tuesday morning.
- Ream borehole on April 16.
- Geophysical logging on April 17.

Please call if there are any questions.

Thanks

Don

Don Lee, PG, CHG | Senior Hydrogeologist

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From: Lee, Don

Sent: Friday, April 12, 2013 8:06 AM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Subject: RE: Drilling update - April 11, 2013

Completed on April 11:

- Hydropunch sampling attempted at 228'. Gravelly soil. Drilling mud was detected inside Hydropunch sampler. No groundwater sample was collected.
- Pull drilling rods and drill out blockage (likely cobbles) up inside drill shoe. Trip down drilling rods.

Planned for April 12:

- Continue drilling and Hydropunch sampling at 10' interval.

Please call if there are any questions.

Thanks

Don

Don Lee, PG, CHG | Senior Hydrogeologist

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From: Lee, Don

Sent: Wednesday, April 10, 2013 8:10 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Subject: RE: Drilling update - April 10, 2013

Completed today:

- Hydropunch sampling attempted at 204'. Groundwater sample was collected.
- Hydropunch sampling attempted at 210.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 219.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

Please call if there are any questions.

Thanks
Don

Don Lee, PG, CHG | Senior Hydrogeologist
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don.lee@tetrattech.com

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From: Lee, Don
Sent: Tuesday, April 09, 2013 3:30 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)
Subject: RE: Drilling update - April 9, 2013

Completed today:

- Hydropunch sampling attempted at 181'. Groundwater sample was collected.
- Hydropunch sampling attempted at 191'. Groundwater sample was collected.
- Hydropunch sampling attempted at 200'. Drilling mud was detected inside sampling rods before opening the Hydropunch sampler. No groundwater sample was collected.

Planned for tomorrow:

- Drill to 203' and attempt Hydropunch sampling at approximately 206'.
- Continue drilling and Hydropunch sampling at 10' interval.

Please call if there are any questions.

Thanks
Don

Don Lee, PG, CHG | Senior Hydrogeologist
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From: Lee, Don
Sent: Monday, April 08, 2013 4:34 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)
Subject: FW: Drilling update - April 8, 2013

Completed today:

- Hydropunch sampling attempted at 161'. Groundwater sample was collected.

- Hydropunch sampling attempted at 170.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

Don Lee, PG, CHG | Senior Hydrogeologist

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From: Lee, Don

Sent: Friday, April 05, 2013 5:01 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: RE: Drilling update - April 5, 2013 (updated)

Completed today:

- Hydropunch sampling attempted at 141'. Gravelly. Only able to penetrate 1'. Drilling mud in sample. No sample collected.
- Hydropunch sampling attempted at 146.5'. Soft clay. Dry.
- Hydropunch sampling attempted at 152'. Groundwater sample was collected.

Planned for April 8:

- Continue drilling and Hydropunch sampling at 10' interval.

Don Lee, PG, CHG | Senior Hydrogeologist

Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010

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From: Lee, Don

Sent: Friday, April 05, 2013 4:18 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: RE: Drilling update - April 5, 2013

Completed today:

- Hydropunch sampling attempted at 141'. Gravelly. Only able to penetrate 1'. Drilling mud in sample. No sample collected.
- Hydropunch sampling attempted at 146.5'. Soft clay. Dry.
- Hydropunch sampling being attempted at 150'.

Planned for April 8:

- Continue drilling and Hydropunch sampling at 10' interval.

Don Lee, PG, CHG | Senior Hydrogeologist
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From: Lee, Don
Sent: Thursday, April 04, 2013 4:54 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov
Subject: RE: Drilling update - April 4, 2013

Completed today:

- Hydropunch sampling attempted at 120.5'. Sample collected.
- Hydropunch sampling attempted at 130.5'. Gravelly. Sample collected although sample appeared to contain some drilling mud.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

Don Lee, PG, CHG | Senior Hydrogeologist
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From: Lee, Don
Sent: Wednesday, April 03, 2013 9:14 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov
Subject: Drilling update - April 3, 2013

Completed today:

- Hydropunch sampling attempted at 107', 109.5', and 112'. Hard gravel. Drilling mud in samples.
- Hydropunch sampling attempted at 115'. Sample collected although sample appears to contain some drilling mud.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval

Don Lee, PG, CHG | Senior Hydrogeologist
Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010
don.lee@tetrattech.com

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Chavira, Raymond

From: Chavira, Raymond
Sent: Thursday, April 18, 2013 5:17 PM
To: Tom.Perina@CH2M.com;Bradley.Barquest@utc.com;Scott.Parsons@tetrattech.com
Cc: ebrayc@gmail.com;Kerang.Sun@CH2M.com;John.Dolegowski@CH2M.com;Lee, Don
Subject: RE: Two additional files for B4/MW6-22D location...

Tom, Thanks. I just got back into town.

Brad,

Today, Scott and I discussed the Amar Rd drilling down to 360' without taking at depths below 343 feet bgs.

We will be discussing these recommendations for characterizing the leading edge of the plume on tomorrow's call.

Scott, are we on for 9:15 or 1 PM?

Ray

From: Tom.Perina@CH2M.com [mailto:Tom.Perina@CH2M.com]
Sent: Thursday, April 18, 2013 5:11 PM
To: Bradley.Barquest@utc.com; Scott.Parsons@tetrattech.com
Cc: Chavira, Raymond; ebrayc@gmail.com; Kerang.Sun@CH2M.com; John.Dolegowski@CH2M.com
Subject: FW: Two additional files for B4/MW6-22D location...

Brad and Scott,

I am sending this on Ray's behalf:

Attached find please the SZ plume map with the depth discrete sampling results at PMW-1, MW6-21, MW6-9i and the Amar Rd. locations posted, along with three additional investigation locations recommended to characterize the leading edge of SZ Eastern plume.

Amar Rd. Sampling

The drilling of the borehole for the piezometer on the Amar Rd. property is currently planned to terminate at 340ft with the last discrete sample collected at about 343ft. Please continue drilling through the aquitard underlying the shallow zone to confirm its presence and thickness, because the aquitard is expected to thin out and transition into coarser and more permeable material in the direction to the north toward San Gabriel basin. To drill through the aquitard, a total depth of about 350-360ft will be needed. No sampling would be required once the borehole advances into the fine grained material of the aquitard. Geophysical logging should be done after the aquitard is penetrated.

Additional Borings

1. Additional Location 1 targets the center-line of the SZ Eastern plume as apparently detected at PMW-1 @ 220' (TCE = 60 ug/L). Target depth 300ft. This location should be drilled first and depending on the results, locations 2 and 3 may have to be changed.
2. Additional Location 2 targets the eastern boundary (MCL) of the eastern plume at the toe. Target depth 250ft.

3. Additional Location 3 targets the leading edge of the SZ plume, as detected at 170-180ft at the Amar location. Target depth 220ft.

The objective of this additional investigation is to characterize the extent of the SZ Eastern plume near its leading edge to confirm whether the Amar Rd. property is acceptable as an injection location.

Monitoring wells at the three additional locations will also improve water level contour maps. Currently, due to lack of data, the flow direction in this area is uncertain and wells at these locations would eliminate much of that uncertainty. Also, they would allow monitoring of changes to flow direction due to injection when the system operates.

Tom Perina, PhD, PG, CHG
Hydrogeologist/Senior Technologist
CH2M HILL
1770 Iowa Avenue, Suite 200
Riverside, CA 92507
direct: 951-824-8724
951-276-3003 x34024
tperina@ch2m.com

-----Original Message-----

From: Sun, Kerang/SCO
Sent: Thursday, April 18, 2013 11:40 AM
To: Perina, Tom/RIV
Cc: Dolegowski, John/SCO
Subject: FW: Two additional files for B4/MW6-22D location...

-----Original Message-----

From: Parsons, Scott [mailto:Scott.Parsons@tetrattech.com]
Sent: Wednesday, April 17, 2013 4:08 PM
To: Sun, Kerang/SCO
Cc: Raymond Chavira
Subject: RE: Two additional files for B4/MW6-22D location...

Thanks Kerang. Can you send over your suggested location for a new PVOU SZ monitoring well at the toe of the Eastern Plume? We would like to discuss at our call on Friday.

From: Kerang.Sun@CH2M.com [Kerang.Sun@CH2M.com]
Sent: Wednesday, April 17, 2013 5:53 PM
To: Parsons, Scott
Subject: Two additional files for B4/MW6-22D location...

This concludes the data transfer for now.

I am expecting to see the updated summary for depth-discrete sampling results for the step out locations at MW6-9i. Will pass it to you once I receive it.

Thanks,

Kerang

Chavira, Raymond

From: Parsons, Scott <Scott.Parsons@tetrattech.com>
Sent: Thursday, April 18, 2013 5:28 PM
To: Tom.Perina@CH2M.com;Bradley.Barquest@utc.com
Cc: Chavira,
Raymond;ebrayc@gmail.com;Kerang.Sun@CH2M.com;John.Dolegowski@CH2M.com
Subject: RE: Two additional files for B4/MW6-22D location...

Tom,

Re the analytical results, what chemicals are being presented from left to right? I did not see anything in the legend

From: Tom.Perina@CH2M.com [mailto:Tom.Perina@CH2M.com]
Sent: Thursday, April 18, 2013 5:11 PM
To: Bradley.Barquest@utc.com; Parsons, Scott
Cc: Chavira.Raymond@epa.gov; ebrayc@gmail.com; Kerang.Sun@CH2M.com; John.Dolegowski@CH2M.com
Subject: FW: Two additional files for B4/MW6-22D location...

Brad and Scott,

I am sending this on Ray's behalf:

Attached find please the SZ plume map with the depth discrete sampling results at PMW-1, MW6-21, MW6-9i and the Amar Rd. locations posted, along with three additional investigation locations recommended to characterize the leading edge of SZ Eastern plume.

Amar Rd. Sampling

The drilling of the borehole for the piezometer on the Amar Rd. property is currently planned to terminate at 340ft with the last discrete sample collected at about 343ft. Please continue drilling through the aquitard underlying the shallow zone to confirm its presence and thickness, because the aquitard is expected to thin out and transition into coarser and more permeable material in the direction to the north toward San Gabriel basin. To drill through the aquitard, a total depth of about 350-360ft will be needed. No sampling would be required once the borehole advances into the fine grained material of the aquitard. Geophysical logging should be done after the aquitard is penetrated.

Additional Borings

1. Additional Location 1 targets the center-line of the SZ Eastern plume as apparently detected at PMW-1 @ 220' (TCE = 60 ug/L). Target depth 300ft. This location should be drilled first and depending on the results, locations 2 and 3 may have to be changed.
2. Additional Location 2 targets the eastern boundary (MCL) of the eastern plume at the toe. Target depth 250ft.
3. Additional Location 3 targets the leading edge of the SZ plume, as detected at 170-180ft at the Amar location. Target depth 220ft.

The objective of this additional investigation is to characterize the extent of the SZ Eastern plume near its leading edge to confirm whether the Amar Rd. property is acceptable as an injection location.

Monitoring wells at the three additional locations will also improve water level contour maps. Currently, due to lack of data, the flow direction in this area is uncertain and wells at these locations would eliminate much of that uncertainty. Also, they would allow monitoring of changes to flow direction due to injection when the system operates.

Tom Perina, PhD, PG, CHG
Hydrogeologist/Senior Technologist
CH2M HILL
1770 Iowa Avenue, Suite 200
Riverside, CA 92507
direct: 951-824-8724
951-276-3003 x34024
tperina@ch2m.com

-----Original Message-----

From: Sun, Kerang/SCO
Sent: Thursday, April 18, 2013 11:40 AM
To: Perina, Tom/RIV
Cc: Dolegowski, John/SCO
Subject: FW: Two additional files for B4/MW6-22D location...

-----Original Message-----

From: Parsons, Scott [mailto:Scott.Parsons@tetrattech.com]
Sent: Wednesday, April 17, 2013 4:08 PM
To: Sun, Kerang/SCO
Cc: Raymond Chavira
Subject: RE: Two additional files for B4/MW6-22D location...

Thanks Kerang. Can you send over your suggested location for a new PV0U SZ monitoring well at the toe of the Eastern Plume? We would like to discuss at our call on Friday.

From: Kerang.Sun@CH2M.com [Kerang.Sun@CH2M.com]
Sent: Wednesday, April 17, 2013 5:53 PM
To: Parsons, Scott
Subject: Two additional files for B4/MW6-22D location...

This concludes the data transfer for now.

I am expecting to see the updated summary for depth-discrete sampling results for the step out locations at MW6-9i. Will pass it to you once I receive it.

Thanks,

Kerang

Chavira, Raymond

From: Parsons, Scott <Scott.Parsons@tetrattech.com>
Sent: Thursday, April 18, 2013 5:38 PM
To: Kerang.Sun@CH2M.com; Tom.Perina@CH2M.com; Bradley.Barquest@utc.com
Cc: Chavira, Raymond; ebrayc@gmail.com; John.Dolegowski@CH2M.com
Subject: RE: Two additional files for B4/MW6-22D location...

I will send dial in info in the morning.

From: Kerang.Sun@CH2M.com [mailto:Kerang.Sun@CH2M.com]
Sent: Thursday, April 18, 2013 5:32 PM
To: Parsons, Scott; Tom.Perina@CH2M.com; Bradley.Barquest@utc.com
Cc: Chavira.Raymond@epa.gov; ebrayc@gmail.com; John.Dolegowski@CH2M.com
Subject: RE: Two additional files for B4/MW6-22D location...

PCE/TCE/1,1-DCE/1,4-Dioxane

Thanks

Kerang Sun, Ph.D., P.G.

CH2M HILL
6 Hutton Centre Dr. Suite 700
Santa Ana, CA 92707
Tel: (714) 435-6324
Fax: (714) 424-2238

From: Parsons, Scott [mailto:Scott.Parsons@tetrattech.com]
Sent: Thursday, April 18, 2013 5:28 PM
To: Perina, Tom/RIV; Bradley.Barquest@utc.com
Cc: Chavira.Raymond@epa.gov; ebrayc@gmail.com; Sun, Kerang/SCO; Dolegowski, John/SCO
Subject: RE: Two additional files for B4/MW6-22D location...

Tom,

Re the analytical results, what chemicals are being presented from left to right? I did not see anything in the legend

From: Tom.Perina@CH2M.com [mailto:Tom.Perina@CH2M.com]
Sent: Thursday, April 18, 2013 5:11 PM
To: Bradley.Barquest@utc.com; Parsons, Scott
Cc: Chavira.Raymond@epa.gov; ebrayc@gmail.com; Kerang.Sun@CH2M.com; John.Dolegowski@CH2M.com
Subject: FW: Two additional files for B4/MW6-22D location...

Brad and Scott,

I am sending this on Ray's behalf:

Attached find please the SZ plume map with the depth discrete sampling results at PMW-1, MW6-21, MW6-9i and the Amar Rd. locations posted, along with three additional investigation locations recommended to characterize the leading edge of SZ Eastern plume.

Amar Rd. Sampling

The drilling of the borehole for the piezometer on the Amar Rd. property is currently planned to terminate at 340ft with the last discrete sample collected at about 343ft. Please continue drilling through the aquitard underlying the shallow zone to confirm its presence and thickness, because the aquitard is expected to thin out and transition into coarser and more permeable material in the direction to the north toward San Gabriel basin. To drill through the aquitard, a total depth of about 350-360ft will be needed. No sampling would be required once the borehole advances into the fine grained material of the aquitard. Geophysical logging should be done after the aquitard is penetrated.

Additional Borings

1. Additional Location 1 targets the center-line of the SZ Eastern plume as apparently detected at PMW-1 @ 220' (TCE = 60 ug/L). Target depth 300ft. This location should be drilled first and depending on the results, locations 2 and 3 may have to be changed.
2. Additional Location 2 targets the eastern boundary (MCL) of the eastern plume at the toe. Target depth 250ft.
3. Additional Location 3 targets the leading edge of the SZ plume, as detected at 170-180ft at the Amar location. Target depth 220ft.

The objective of this additional investigation is to characterize the extent of the SZ Eastern plume near its leading edge to confirm whether the Amar Rd. property is acceptable as an injection location.

Monitoring wells at the three additional locations will also improve water level contour maps. Currently, due to lack of data, the flow direction in this area is uncertain and wells at these locations would eliminate much of that uncertainty. Also, they would allow monitoring of changes to flow direction due to injection when the system operates.

Tom Perina, PhD, PG, CHG
Hydrogeologist/Senior Technologist
CH2M HILL
1770 Iowa Avenue, Suite 200
Riverside, CA 92507
direct: 951-824-8724
951-276-3003 x34024
tperina@ch2m.com

-----Original Message-----

From: Sun, Kerang/SCO
Sent: Thursday, April 18, 2013 11:40 AM
To: Perina, Tom/RIV
Cc: Dolegowski, John/SCO
Subject: FW: Two additional files for B4/MW6-22D location...

-----Original Message-----

From: Parsons, Scott [<mailto:Scott.Parsons@tetrattech.com>]
Sent: Wednesday, April 17, 2013 4:08 PM
To: Sun, Kerang/SCO
Cc: Raymond Chavira
Subject: RE: Two additional files for B4/MW6-22D location...

Thanks Kerang. Can you send over your suggested location for a new PV0U SZ monitoring well at the toe of the Eastern Plume? We would like to discuss at our call on Friday.

From: Kerang.Sun@CH2M.com [Kerang.Sun@CH2M.com]
Sent: Wednesday, April 17, 2013 5:53 PM
To: Parsons, Scott
Subject: Two additional files for B4/MW6-22D location...

This concludes the data transfer for now.

I am expecting to see the updated summary for depth-discrete sampling results for the step out locations at MW6-9i. Will pass it to you once I receive it.

Thanks,

Kerang

Chavira, Raymond

From: Tom.Perina@CH2M.com
Sent: Thursday, April 18, 2013 5:42 PM
To: Scott.Parsons@tetrattech.com;Chavira, Raymond;Bradley.Barquest@utc.com
Cc: ebrayc@gmail.com;Kerang.Sun@CH2M.com;John.Dolegowski@CH2M.com;Don.Lee@tetrattech.com
Subject: RE: Two additional files for B4/MW6-22D location...

Scott,
Will you send out a call-in number?

From: Parsons, Scott [mailto:Scott.Parsons@tetrattech.com]
Sent: Thursday, April 18, 2013 5:37 PM
To: Chavira, Raymond; Perina, Tom/RIV; Bradley.Barquest@utc.com
Cc: ebrayc@gmail.com; Sun, Kerang/SCO; Dolegowski, John/SCO; Lee, Don
Subject: RE: Two additional files for B4/MW6-22D location...

9:15

From: Chavira, Raymond [mailto:Chavira.Raymond@epa.gov]
Sent: Thursday, April 18, 2013 5:17 PM
To: Tom.Perina@CH2M.com; Bradley.Barquest@utc.com; Parsons, Scott
Cc: ebrayc@gmail.com; Kerang.Sun@CH2M.com; John.Dolegowski@CH2M.com; Lee, Don
Subject: RE: Two additional files for B4/MW6-22D location...

Tom, Thanks. I just got back into town.

Brad,

Today, Scott and I discussed the Amar Rd drilling down to 360' without taking at depths below 343 feet bgs.

We will be discussing these recommendations for characterizing the leading edge of the plume on tomorrow's call.

Scott, are we on for 9:15 or 1 PM?

Ray

From: Tom.Perina@CH2M.com [mailto:Tom.Perina@CH2M.com]
Sent: Thursday, April 18, 2013 5:11 PM
To: Bradley.Barquest@utc.com; Scott.Parsons@tetrattech.com
Cc: Chavira, Raymond; ebrayc@gmail.com; Kerang.Sun@CH2M.com; John.Dolegowski@CH2M.com
Subject: FW: Two additional files for B4/MW6-22D location...

Brad and Scott,

I am sending this on Ray's behalf:

Attached find please the SZ plume map with the depth discrete sampling results at PMW-1, MW6-21, MW6-9i and the Amar Rd. locations posted, along with three additional investigation locations recommended to characterize the leading edge of SZ Eastern plume.

Amar Rd. Sampling

The drilling of the borehole for the piezometer on the Amar Rd. property is currently planned to terminate at 340ft with the last discrete sample collected at about 343ft. Please continue drilling through the aquitard underlying the shallow zone to confirm its presence and thickness, because the aquitard is expected to thin out and transition into coarser and more permeable material in the direction to the north toward San Gabriel basin. To drill through the aquitard, a total depth of about 350-360ft will be needed. No sampling would be required once the borehole advances into the fine grained material of the aquitard. Geophysical logging should be done after the aquitard is penetrated.

Additional Borings

1. Additional Location 1 targets the center-line of the SZ Eastern plume as apparently detected at PMW-1 @ 220' (TCE = 60 ug/L). Target depth 300ft. This location should be drilled first and depending on the results, locations 2 and 3 may have to be changed.
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3. Additional Location 3 targets the leading edge of the SZ plume, as detected at 170-180ft at the Amar location. Target depth 220ft.

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Riverside, CA 92507
direct: 951-824-8724
951-276-3003 x34024
tperina@ch2m.com

-----Original Message-----

From: Sun, Kerang/SCO
Sent: Thursday, April 18, 2013 11:40 AM
To: Perina, Tom/RIV
Cc: Dolegowski, John/SCO
Subject: FW: Two additional files for B4/MW6-22D location...

-----Original Message-----

From: Parsons, Scott [<mailto:Scott.Parsons@tetrattech.com>]
Sent: Wednesday, April 17, 2013 4:08 PM
To: Sun, Kerang/SCO
Cc: Raymond Chavira
Subject: RE: Two additional files for B4/MW6-22D location...

Thanks Kerang. Can you send over your suggested location for a new PV0U SZ monitoring well at the toe of the Eastern Plume? We would like to discuss at our call on Friday.

From: Kerang.Sun@CH2M.com [Kerang.Sun@CH2M.com]
Sent: Wednesday, April 17, 2013 5:53 PM
To: Parsons, Scott
Subject: Two additional files for B4/MW6-22D location...

This concludes the data transfer for now.

I am expecting to see the updated summary for depth-discrete sampling results for the step out locations at MW6-9i. Will pass it to you once I receive it.

Thanks,

Kerang

Chavira, Raymond

From: Parsons, Scott <Scott.Parsons@tetrattech.com>
Sent: Friday, April 19, 2013 5:34 AM
To: Lee, Don; Bradley.Barquest@utc.com; Chavira, Raymond; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Cc: Brad.Barquest@comcast.net
Subject: RE: 13811 Amar Road piezometer drilling update - April 18, 2013

To clarify, we we will collect last Hydropunch sample at approximately 343'. Drill to 360' (no sampling between 343' and 360'), and then do the geophysical logging

From: Lee, Don
Sent: Thursday, April 18, 2013 6:39 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Cc: Brad.Barquest@comcast.net
Subject: RE: 13811 Amar Road piezometer drilling update - April 18, 2013

Completed today:

- Hydropunch sampling attempted at 320.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 330'. Groundwater sample was collected.

Planned for tomorrow:

- Drill to 340' and collect last Hydropunch sample at approximately 343'.
- Geophysical logging.

Please call if there are any questions.

Thanks
Don

Don Lee, PG, CHG | Senior Hydrogeologist
Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010
don.lee@tetrattech.com

Tetra Tech
17885 Von Karman Avenue, Suite 500, Irvine, CA 92614-6213 | www.tetrattechgeo.com
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From: Lee, Don
Sent: Wednesday, April 17, 2013 3:45 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Cc: 'Brad.Barquest@comcast.net'
Subject: RE: 13811 Amar Road piezometer drilling update - April 17, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date (Sample results to 270.5').

Completed today:

- Hydropunch sampling attempted at 300'. Groundwater sample was collected.
- Hydropunch sampling attempted at 310'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at approximately 10' interval.

Please call if there are any questions.

Thanks

Don

Don Lee, PG, CHG | Senior Hydrogeologist

Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010
don.lee@tetrattech.com

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From: Lee, Don

Sent: Tuesday, April 16, 2013 5:06 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com

Cc: 'Bradley.Barquest@comcast.net'

Subject: 13811 Amar Road piezometer drilling update - April 16, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date (Sample results to 253'). The current plan is to extend the drilling and depth-discrete groundwater sampling from 275 feet depth to approximately 340 feet depth.

Completed today:

- Hydropunch sampling attempted at 290'. Gravelly soil. Drilling mud was observed inside Hydropunch sampler. No groundwater sample was collected.
- Hydropunch sampling attempted at 293.5'. Dry even after opening additional length of sampler screen.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at approximately 10' interval.

Please call if there are any questions.

Thanks

Don

Don Lee, PG, CHG | Senior Hydrogeologist

Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010
don.lee@tetrattech.com

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From: Lee, Don
Sent: Monday, April 15, 2013 5:16 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)
Cc: 'Bradley.Barquest@comcast.net'
Subject: RE: Drilling update - April 15, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date. VOC concentrations in several samples are above the MCLs.

Completed today:

- Hydropunch sampling attempted at 260.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 270.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 280.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at approximately 10' interval.

Please call if there are any questions.

Thanks

Don

Don Lee, PG, CHG | Senior Hydrogeologist

Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010
don.lee@tetrattech.com

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From: Lee, Don
Sent: Friday, April 12, 2013 6:32 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)
Subject: RE: Drilling update - April 12, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date. VOC concentrations in several samples are above the MCLs.

Completed today:

- Hydropunch sampling attempted at 239'. Groundwater sample was collected.
- Hydropunch sampling attempted at 250'. Gravelly soil. Drilling mud was detected inside sampling rods before opening the Hydropunch sampler. No groundwater sample was collected.
- Hydropunch sampling attempted at 253'. Groundwater sample was collected.

Planned for April 15:

- Continue drilling and Hydropunch sampling at approximately 10' interval.
- Depth of 275' may be reached late Monday April 15 or Tuesday morning.
- Ream borehole on April 16.
- Geophysical logging on April 17.

Please call if there are any questions.

Thanks
Don

Don Lee, PG, CHG | Senior Hydrogeologist

Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010
don.lee@tetratech.com

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From: Lee, Don

Sent: Friday, April 12, 2013 8:06 AM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Subject: RE: Drilling update - April 11, 2013

Completed on April 11:

- Hydropunch sampling attempted at 228'. Gravelly soil. Drilling mud was detected inside Hydropunch sampler. No groundwater sample was collected.
- Pull drilling rods and drill out blockage (likely cobbles) up inside drill shoe. Trip down drilling rods.

Planned for April 12:

- Continue drilling and Hydropunch sampling at 10' interval.

Please call if there are any questions.

Thanks
Don

Don Lee, PG, CHG | Senior Hydrogeologist

Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010
don.lee@tetratech.com

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From: Lee, Don

Sent: Wednesday, April 10, 2013 8:10 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Subject: RE: Drilling update - April 10, 2013

Completed today:

- Hydropunch sampling attempted at 204'. Groundwater sample was collected.
- Hydropunch sampling attempted at 210.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 219.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

Please call if there are any questions.

Thanks

Don

Don Lee, PG, CHG | Senior Hydrogeologist

Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010
don.lee@tetrattech.com

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From: Lee, Don

Sent: Tuesday, April 09, 2013 3:30 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Subject: RE: Drilling update - April 9, 2013

Completed today:

- Hydropunch sampling attempted at 181'. Groundwater sample was collected.
- Hydropunch sampling attempted at 191'. Groundwater sample was collected.
- Hydropunch sampling attempted at 200'. Drilling mud was detected inside sampling rods before opening the Hydropunch sampler. No groundwater sample was collected.

Planned for tomorrow:

- Drill to 203' and attempt Hydropunch sampling at approximately 206'.
- Continue drilling and Hydropunch sampling at 10' interval.

Please call if there are any questions.

Thanks

Don

Don Lee, PG, CHG | Senior Hydrogeologist

Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010
don.lee@tetrattech.com

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From: Lee, Don

Sent: Monday, April 08, 2013 4:34 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Subject: FW: Drilling update - April 8, 2013

Completed today:

- Hydropunch sampling attempted at 161'. Groundwater sample was collected.
- Hydropunch sampling attempted at 170.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

Don Lee, PG, CHG | Senior Hydrogeologist

Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010
don.lee@tetrattech.com

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From: Lee, Don

Sent: Friday, April 05, 2013 5:01 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: RE: Drilling update - April 5, 2013 (updated)

Completed today:

- Hydropunch sampling attempted at 141'. Gravelly. Only able to penetrate 1'. Drilling mud in sample. No sample collected.
- Hydropunch sampling attempted at 146.5'. Soft clay. Dry.
- Hydropunch sampling attempted at 152'. Groundwater sample was collected.

Planned for April 8:

- Continue drilling and Hydropunch sampling at 10' interval.

Don Lee, PG, CHG | Senior Hydrogeologist

Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010
don.lee@tetrattech.com

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From: Lee, Don

Sent: Friday, April 05, 2013 4:18 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: RE: Drilling update - April 5, 2013

Completed today:

- Hydropunch sampling attempted at 141'. Gravelly. Only able to penetrate 1'. Drilling mud in sample. No sample collected.
- Hydropunch sampling attempted at 146.5'. Soft clay. Dry.
- Hydropunch sampling being attempted at 150'.

Planned for April 8:

- Continue drilling and Hydropunch sampling at 10' interval.

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From: Lee, Don

Sent: Thursday, April 04, 2013 4:54 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: RE: Drilling update - April 4, 2013

Completed today:

- Hydropunch sampling attempted at 120.5'. Sample collected.
- Hydropunch sampling attempted at 130.5'. Gravelly. Sample collected although sample appeared to contain some drilling mud.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

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From: Lee, Don

Sent: Wednesday, April 03, 2013 9:14 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: Drilling update - April 3, 2013

Completed today:

- Hydropunch sampling attempted at 107', 109.5', and 112'. Hard gravel. Drilling mud in samples.
- Hydropunch sampling attempted at 115'. Sample collected although sample appears to contain some drilling mud.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval

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Chavira, Raymond

Subject: PVOU Discussion
Location: Conf Call

Start: Fri 4/19/2013 9:15 AM
End: Fri 4/19/2013 10:15 AM

Recurrence: (none)

Meeting Status: Accepted

Organizer: Barquest, Bradley A UTCHQ

Group, the following is the call-in number for our discussion at 9:15 am pacific

Call-in number 866-657-9737
Access code: 3545373#

Chavira, Raymond

From: Tom.Perina@CH2M.com
Sent: Friday, April 19, 2013 7:39 AM
To: Scott.Parsons@tetrattech.com; Don.Lee@tetrattech.com; Bradley.Barquest@utc.com; Chavira, Raymond; Kerang.Sun@CH2M.com
Cc: Brad.Barquest@comcast.net
Subject: RE: 13811 Amar Road piezometer drilling update - April 18, 2013

That's good, thanks, Scott

From: Parsons, Scott [mailto:Scott.Parsons@tetrattech.com]
Sent: Friday, April 19, 2013 5:34 AM
To: Lee, Don; Bradley.Barquest@utc.com; Chavira.Raymond@epamail.epa.gov; Perina, Tom/RIV; Sun, Kerang/SCO
Cc: Brad.Barquest@comcast.net
Subject: RE: 13811 Amar Road piezometer drilling update - April 18, 2013

To clarify, we we will collect last Hydropunch sample at approximately 343'. Drill to 360' (no sampling between 343' and 360'), and then do the geophysical logging

From: Lee, Don
Sent: Thursday, April 18, 2013 6:39 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Cc: Brad.Barquest@comcast.net
Subject: RE: 13811 Amar Road piezometer drilling update - April 18, 2013

Completed today:

- Hydropunch sampling attempted at 320.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 330'. Groundwater sample was collected.

Planned for tomorrow:

- Drill to 340' and collect last Hydropunch sample at approximately 343'.
- Geophysical logging.

Please call if there are any questions.

Thanks
Don

Don Lee, PG, CHG | Senior Hydrogeologist
Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010
don.lee@tetrattech.com

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From: Lee, Don
Sent: Wednesday, April 17, 2013 3:45 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Cc: 'Brad.Barquest@comcast.net'
Subject: RE: 13811 Amar Road piezometer drilling update - April 17, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date (Sample results to 270.5').

Completed today:

- Hydropunch sampling attempted at 300'. Groundwater sample was collected.
- Hydropunch sampling attempted at 310'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at approximately 10' interval.

Please call if there are any questions.

Thanks

Don

Don Lee, PG, CHG | Senior Hydrogeologist

Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010

don.lee@tetratech.com

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From: Lee, Don
Sent: Tuesday, April 16, 2013 5:06 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Cc: 'Bradley.Barquest@comcast.net'
Subject: 13811 Amar Road piezometer drilling update - April 16, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date (Sample results to 253'). The current plan is to extend the drilling and depth-discrete groundwater sampling from 275 feet depth to approximately 340 feet depth.

Completed today:

- Hydropunch sampling attempted at 290'. Gravelly soil. Drilling mud was observed inside Hydropunch sampler. No groundwater sample was collected.
- Hydropunch sampling attempted at 293.5'. Dry even after opening additional length of sampler screen.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at approximately 10' interval.

Please call if there are any questions.

Thanks

Don

Don Lee, PG, CHG | Senior Hydrogeologist

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don.lee@tetrattech.com

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From: Lee, Don

Sent: Monday, April 15, 2013 5:16 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Cc: 'Bradley.Barquest@comcast.net'

Subject: RE: Drilling update - April 15, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date. VOC concentrations in several samples are above the MCLs.

Completed today:

- Hydropunch sampling attempted at 260.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 270.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 280.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at approximately 10' interval.

Please call if there are any questions.

Thanks

Don

Don Lee, PG, CHG | Senior Hydrogeologist

Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010
don.lee@tetrattech.com

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From: Lee, Don

Sent: Friday, April 12, 2013 6:32 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Subject: RE: Drilling update - April 12, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date. VOC concentrations in several samples are above the MCLs.

Completed today:

- Hydropunch sampling attempted at 239'. Groundwater sample was collected.

- Hydropunch sampling attempted at 250'. Gravelly soil. Drilling mud was detected inside sampling rods before opening the Hydropunch sampler. No groundwater sample was collected.
- Hydropunch sampling attempted at 253'. Groundwater sample was collected.

Planned for April 15:

- Continue drilling and Hydropunch sampling at approximately 10' interval.
- Depth of 275' may be reached late Monday April 15 or Tuesday morning.
- Ream borehole on April 16.
- Geophysical logging on April 17.

Please call if there are any questions.

Thanks
Don

Don Lee, PG, CHG | Senior Hydrogeologist

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don.lee@tetrattech.com

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From: Lee, Don

Sent: Friday, April 12, 2013 8:06 AM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Subject: RE: Drilling update - April 11, 2013

Completed on April 11:

- Hydropunch sampling attempted at 228'. Gravelly soil. Drilling mud was detected inside Hydropunch sampler. No groundwater sample was collected.
- Pull drilling rods and drill out blockage (likely cobbles) up inside drill shoe. Trip down drilling rods.

Planned for April 12:

- Continue drilling and Hydropunch sampling at 10' interval.

Please call if there are any questions.

Thanks
Don

Don Lee, PG, CHG | Senior Hydrogeologist

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From: Lee, Don

Sent: Wednesday, April 10, 2013 8:10 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Subject: RE: Drilling update - April 10, 2013

Completed today:

- Hydropunch sampling attempted at 204'. Groundwater sample was collected.
- Hydropunch sampling attempted at 210.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 219.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

Please call if there are any questions.

Thanks

Don

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From: Lee, Don

Sent: Tuesday, April 09, 2013 3:30 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Subject: RE: Drilling update - April 9, 2013

Completed today:

- Hydropunch sampling attempted at 181'. Groundwater sample was collected.
- Hydropunch sampling attempted at 191'. Groundwater sample was collected.
- Hydropunch sampling attempted at 200'. Drilling mud was detected inside sampling rods before opening the Hydropunch sampler. No groundwater sample was collected.

Planned for tomorrow:

- Drill to 203' and attempt Hydropunch sampling at approximately 206'.
- Continue drilling and Hydropunch sampling at 10' interval.

Please call if there are any questions.

Thanks

Don

Don Lee, PG, CHG | Senior Hydrogeologist

Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010

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From: Lee, Don
Sent: Monday, April 08, 2013 4:34 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)
Subject: FW: Drilling update - April 8, 2013

Completed today:

- Hydropunch sampling attempted at 161'. Groundwater sample was collected.
- Hydropunch sampling attempted at 170.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

Don Lee, PG, CHG | Senior Hydrogeologist

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From: Lee, Don
Sent: Friday, April 05, 2013 5:01 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov
Subject: RE: Drilling update - April 5, 2013 (updated)

Completed today:

- Hydropunch sampling attempted at 141'. Gravelly. Only able to penetrate 1'. Drilling mud in sample. No sample collected.
- Hydropunch sampling attempted at 146.5'. Soft clay. Dry.
- Hydropunch sampling attempted at 152'. Groundwater sample was collected.

Planned for April 8:

- Continue drilling and Hydropunch sampling at 10' interval.

Don Lee, PG, CHG | Senior Hydrogeologist

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Sent: Friday, April 05, 2013 4:18 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: RE: Drilling update - April 5, 2013

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- Hydropunch sampling attempted at 146.5'. Soft clay. Dry.
- Hydropunch sampling being attempted at 150'.

Planned for April 8:

- Continue drilling and Hydropunch sampling at 10' interval.

Don Lee, PG, CHG | Senior Hydrogeologist

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From: Lee, Don

Sent: Thursday, April 04, 2013 4:54 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: RE: Drilling update - April 4, 2013

Completed today:

- Hydropunch sampling attempted at 120.5'. Sample collected.
- Hydropunch sampling attempted at 130.5'. Gravelly. Sample collected although sample appeared to contain some drilling mud.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

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From: Lee, Don

Sent: Wednesday, April 03, 2013 9:14 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: Drilling update - April 3, 2013

Completed today:

- Hydropunch sampling attempted at 107', 109.5', and 112'. Hard gravel. Drilling mud in samples.
- Hydropunch sampling attempted at 115'. Sample collected although sample appears to contain some drilling mud.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval

Don Lee, PG, CHG | Senior Hydrogeologist

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Chavira, Raymond

From: Lee, Don <Don.Lee@tetrattech.com>
Sent: Friday, April 19, 2013 1:21 PM
To: Bradley.Barquest@utc.com;Parsons, Scott;Chavira, Raymond;Tom Perina (tom.perina@ch2m.com);Kerang.Sun@CH2M.com
Cc: Brad.Barquest@comcast.net
Subject: piezometer drilling status

Importance: High

All,

We are a bit ahead on drilling schedule. We just completed drilling to 360'. We collected a groundwater sample at 342' this morning. Here are the latest:

- Geophysical logging will be completed late today, rather than Monday.
- Geophysical logs (ASCII and pdf) will be sent to Tom Perina by email when they are received this afternoon.
- Draft well design, which will show lithology, DD sample results and geophysical results, will be emailed to everyone before the 9:15AM conference call on Monday. We would like to have concurrence on well design at the Monday morning conference call if possible so that we can continue field work without delays or standbys.
- Backfill with bentonite seal the bottom of the borehole from 360' to approximately 300' on Monday morning before reaming the borehole.

Please call if you have any questions.

Thanks
Don

Don Lee, PG, CHG | Senior Hydrogeologist
Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010
don.lee@tetrattech.com

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Chavira, Raymond

From: Tom.Perina@CH2M.com
Sent: Friday, April 19, 2013 1:56 PM
To: Don.Lee@tetrattech.com;Bradley.Barquest@utc.com;Scott.Parsons@tetrattech.com;Chavira, Raymond;Kerang.Sun@CH2M.com
Cc: Brad.Barquest@comcast.net
Subject: RE: piezometer drilling status

Thanks, Don. Please copy Kerang when sending me the logs.

From: Lee, Don [mailto:Don.Lee@tetrattech.com]
Sent: Friday, April 19, 2013 1:21 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Perina, Tom/RIV; Sun, Kerang/SCO
Cc: Brad.Barquest@comcast.net
Subject: piezometer drilling status
Importance: High

All,

We are a bit ahead on drilling schedule. We just completed drilling to 360'. We collected a groundwater sample at 342' this morning. Here are the latest:

- Geophysical logging will be completed late today, rather than Monday.
- Geophysical logs (ASCII and pdf) will be sent to Tom Perina by email when they are received this afternoon.
- Draft well design, which will show lithology, DD sample results and geophysical results, will be emailed to everyone before the 9:15AM conference call on Monday. We would like to have concurrence on well design at the Monday morning conference call if possible so that we can continue field work without delays or standbys.
- Backfill with bentonite seal the bottom of the borehole from 360' to approximately 300' on Monday morning before reaming the borehole.

Please call if you have any questions.

Thanks
Don

Don Lee, PG, CHG | Senior Hydrogeologist
Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010
don.lee@tetrattech.com

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Chavira, Raymond

From: Chavira, Raymond
Sent: Friday, April 19, 2013 2:03 PM
To: Tom.Perina@CH2M.com; Don.Lee@tetrattech.com; Bradley.Barquest@utc.com; Scott.Parsons@tetrattech.com; Kerang.Sun@CH2M.com
Cc: Brad.Barquest@comcast.net
Subject: RE: piezometer drilling status

Don,

We cannot concur with Bullet #4 until we have review the data provided in bullet #3.

Ray

Raymond Chavira
Environmental Scientist/Remedial Project Manager
EPA Region IX
75 Hawthorne Street, SFD-7-3
San Francisco, CA 94105-3901
(415) 947-4218
(415) 947-3528 fax

From: Tom.Perina@CH2M.com [mailto:Tom.Perina@CH2M.com]
Sent: Friday, April 19, 2013 1:56 PM
To: Don.Lee@tetrattech.com; Bradley.Barquest@utc.com; Scott.Parsons@tetrattech.com; Chavira, Raymond; Kerang.Sun@CH2M.com
Cc: Brad.Barquest@comcast.net
Subject: RE: piezometer drilling status

Thanks, Don. Please copy Kerang when sending me the logs.

From: Lee, Don [mailto:Don.Lee@tetrattech.com]
Sent: Friday, April 19, 2013 1:21 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Perina, Tom/RIV; Sun, Kerang/SCO
Cc: Brad.Barquest@comcast.net
Subject: piezometer drilling status
Importance: High

All,

We are a bit ahead on drilling schedule. We just completed drilling to 360'. We collected a groundwater sample at 342' this morning. Here are the latest:

- Geophysical logging will be completed late today, rather than Monday.
- Geophysical logs (ASCII and pdf) will be sent to Tom Perina by email when they are received this afternoon.

- Draft well design, which will show lithology, DD sample results and geophysical results, will be emailed to everyone before the 9:15AM conference call on Monday. We would like to have concurrence on well design at the Monday morning conference call if possible so that we can continue field work without delays or standbys.
- Backfill with bentonite seal the bottom of the borehole from 360' to approximately 300' on Monday morning before reaming the borehole.

Please call if you have any questions.

Thanks

Don

Don Lee, PG, CHG | Senior Hydrogeologist

Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010

don.lee@tetrattech.com

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Chavira, Raymond

From: Tom.Perina@CH2M.com
Sent: Friday, April 19, 2013 4:10 PM
To: Don.Lee@tetrattech.com
Cc: Brad.Barquest@comcast.net;Chavira, Raymond;Bradley.Barquest@utc.com;Scott.Parsons@tetrattech.com;Kerang.Sun@CH2M.com
Subject: RE: piezometer drilling status

Don,

I just spoke with Ray. It is OK and preferable to place the bentonite backfill into the bottom portion of the borehole to seal the aquitard from 360 to about 340 rather sooner than later.

If you place the chips all the way to 300ft, there could be a possibility that a well screen needs to be below 300ft and in that case the bentonite would need to be reamed (doable, but potential waste of chips).

Tom

From: Chavira, Raymond [mailto:Chavira.Raymond@epa.gov]
Sent: Friday, April 19, 2013 2:03 PM
To: Perina, Tom/RIV; Don.Lee@tetrattech.com; Bradley.Barquest@utc.com; Scott.Parsons@tetrattech.com; Sun, Kerang/SCO
Cc: Brad.Barquest@comcast.net
Subject: RE: piezometer drilling status

Don,

We cannot concur with Bullet #4 until we have review the data provided in bullet #3.

Ray

Raymond Chavira
Environmental Scientist/Remedial Project Manager
EPA Region IX
75 Hawthorne Street, SFD-7-3
San Francisco, CA 94105-3901
(415) 947-4218
(415) 947-3528 fax

From: Tom.Perina@CH2M.com [mailto:Tom.Perina@CH2M.com]
Sent: Friday, April 19, 2013 1:56 PM
To: Don.Lee@tetrattech.com; Bradley.Barquest@utc.com; Scott.Parsons@tetrattech.com; Chavira, Raymond; Kerang.Sun@CH2M.com
Cc: Brad.Barquest@comcast.net
Subject: RE: piezometer drilling status

Thanks, Don. Please copy Kerang when sending me the logs.

From: Lee, Don [<mailto:Don.Lee@tetrattech.com>]

Sent: Friday, April 19, 2013 1:21 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Perina, Tom/RIV; Sun, Kerang/SCO

Cc: Brad.Barquest@comcast.net

Subject: piezometer drilling status

Importance: High

All,

We are a bit ahead on drilling schedule. We just completed drilling to 360'. We collected a groundwater sample at 342' this morning. Here are the latest:

- Geophysical logging will be completed late today, rather than Monday.
- Geophysical logs (ASCII and pdf) will be sent to Tom Perina by email when they are received this afternoon.
- Draft well design, which will show lithology, DD sample results and geophysical results, will be emailed to everyone before the 9:15AM conference call on Monday. We would like to have concurrence on well design at the Monday morning conference call if possible so that we can continue field work without delays or standbys.
- Backfill with bentonite seal the bottom of the borehole from 360' to approximately 300' on Monday morning before reaming the borehole.

Please call if you have any questions.

Thanks

Don

Don Lee, PG, CHG | Senior Hydrogeologist

Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010

don.lee@tetrattech.com

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Chavira, Raymond

From: Chavira, Raymond
Sent: Monday, April 22, 2013 9:17 AM
To: Lee, Don; Bradley.Barquest@utc.com; Parsons, Scott; Skipp, Dave; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Subject: RE: 342' groundwater sample results for 13811 Amar Road piezometer (P-1)

We should be able to provide our comments and/concurrence by COB today.

Ray

From: Lee, Don [mailto:Don.Lee@tetrattech.com]
Sent: Monday, April 22, 2013 9:05 AM
To: Bradley.Barquest@utc.com; Parsons, Scott; Skipp, Dave; Chavira, Raymond; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Subject: 342' groundwater sample results for 13811 Amar Road piezometer (P-1)

Please find attached updated groundwater sample results summary table for P-1. The VOCs were non-detect for 342' groundwater sample. 1,4-dioxane results are to be available tomorrow morning.

Don

Don Lee, PG, CHG | Senior Hydrogeologist

Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010

don.lee@tetrattech.com

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Chavira, Raymond

From: Barquest, Bradley A UTCHQ <Bradley.Barquest@utc.com>
Sent: Monday, April 22, 2013 9:38 AM
To: Chavira, Raymond
Subject: RE: 342' groundwater sample results for 13811 Amar Road piezometer (P-1)

Thanks

Bradley A Barquest, R.G.
United Technologies Corporation
Telephone 763-432-5695
e-fax 860-622-0566
bradley.barquest@utc.com

From: Chavira, Raymond [<mailto:Chavira.Raymond@epa.gov>]
Sent: Monday, April 22, 2013 11:17 AM
To: Lee, Don; Barquest, Bradley A UTCHQ; Parsons, Scott; Skipp, Dave; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Subject: [External] RE: 342' groundwater sample results for 13811 Amar Road piezometer (P-1)

We should be able to provide our comments and/concurrence by COB today.

Ray

From: Lee, Don [<mailto:Don.Lee@tetrattech.com>]
Sent: Monday, April 22, 2013 9:05 AM
To: Bradley.Barquest@utc.com; Parsons, Scott; Skipp, Dave; Chavira, Raymond; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Subject: 342' groundwater sample results for 13811 Amar Road piezometer (P-1)

Please find attached updated groundwater sample results summary table for P-1. The VOCs were non-detect for 342' groundwater sample. 1,4-dioxane results are to be available tomorrow morning.

Don

Don Lee, PG, CHG | Senior Hydrogeologist
Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010
don.lee@tetrattech.com

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Chavira, Raymond

From: Chavira, Raymond
Sent: Monday, April 22, 2013 1:46 PM
To: Lee, Don; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Cc: Bradley.Barquest@utc.com; Mercer, Jim; Parsons, Scott; Skipp, Dave
Subject: RE: 13811 Amar Road piezometer design

Don,

EPA has reviewed the piezometer design submitted on behalf of UTC. Our comments and recommendations are:

1. We concur with the three proposed screen intervals and annular seals.
2. A fourth screen interval 215-230ft (with filter pack similar to those proposed) is recommended to monitor hydraulic response to injection in a gravel zone and confirm the TCE concentrations above MCL in the 219.5ft sample. The same zone is screened at MW6-21.
3. Our preliminary interpretation of the results suggest that the depth to the bottom of the Shallow Zone (SZ) aquifer is 323ft. The interval 323-345ft is considered to be an aquitard separating the SZ from the Intermediate Zone (IZ) aquifer.

Please respond to this email with agreement before proceeding with well installation.

Ray

Raymond Chavira
Environmental Scientist/Remedial Project Manager
EPA Region IX
75 Hawthorne Street, SFD-7-3
San Francisco, CA 94105-3901
(415) 947-4218
(415) 947-3528 fax

From: Lee, Don [mailto:Don.Lee@tetrattech.com]
Sent: Sunday, April 21, 2013 5:34 PM
To: Chavira, Raymond; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Cc: Bradley.Barquest@utc.com; Mercer, Jim; Parsons, Scott; Skipp, Dave
Subject: 13811 Amar Road piezometer design
Importance: High

Please find attached piezometer design for discussion and concurrence on Monday.

- The uppermost screen at 95-120' below ground surface (bgs) straddles the groundwater surface (approximately 103' bgs based on e-log) to evaluate mounding caused by reinjection.
- The middle screen at 170-185' bgs is to evaluate the aquifer's response to reinjection in the interval where the greatest concentrations of TCE and PCE were detected.

- The lower screen at 305-315' bgs in the coarse grained interval is located below a predominantly fine grained (clay) unit from approximately 230-280' bgs to evaluate aquifer response to reinjection below the SZ in this area.

Please call if you have any questions.

Thanks

Don

Don Lee, PG, CHG | Senior Hydrogeologist

Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010

don.lee@tetrattech.com

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Chavira, Raymond

From: Tom.Perina@CH2M.com
Sent: Monday, April 22, 2013 3:54 PM
To: Don.Lee@tetrattech.com;Chavira, Raymond;Kerang.Sun@CH2M.com
Cc: Bradley.Barquest@utc.com;Jim.Mercer@tetrattech.com;Scott.Parsons@tetrattech.com;Dave.Skipp@tetrattech.com
Subject: RE: 13811 Amar Road piezometer design

Don,

I am replying for Ray since he is not available until later – the change in the screen interval from 95-120ft to 100-120ft is fine.

Regards,

Tom

From: Lee, Don [mailto:Don.Lee@tetrattech.com]
Sent: Monday, April 22, 2013 2:32 PM
To: Chavira, Raymond; Perina, Tom/RIV; Sun, Kerang/SCO
Cc: Bradley.Barquest@utc.com; Mercer, Jim; Parsons, Scott; Skipp, Dave
Subject: RE: 13811 Amar Road piezometer design

Ray,

UTC agrees to install the fourth piezometer per USEPA's recommendation. The upper screen interval will be from 100 feet bgs to 120 feet bgs, rather than from 95 feet bgs to 120 feet bgs as originally proposed. Revised well construction diagram is attached.

Tetra Tech interprets that the predominantly fine grained (clay) unit from approximately 230-280' bgs separates the PVOU Shallow Zone from the PVOU Intermediate Zone.

Please call if you have any questions.

Thanks
Don

Don Lee, PG, CHG | Senior Hydrogeologist
Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010
don.lee@tetrattech.com

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From: Chavira, Raymond [<mailto:Chavira.Raymond@epa.gov>]
Sent: Monday, April 22, 2013 1:46 PM
To: Lee, Don; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com

Cc: Bradley.Barquest@utc.com; Mercer, Jim; Parsons, Scott; Skipp, Dave

Subject: RE: 13811 Amar Road piezometer design

Don,

EPA has reviewed the piezometer design submitted on behalf of UTC. Our comments and recommendations are:

1. We concur with the three proposed screen intervals and annular seals.
2. A fourth screen interval 215-230ft (with filter pack similar to those proposed) is recommended to monitor hydraulic response to injection in a gravel zone and confirm the TCE concentrations above MCL in the 219.5ft sample. The same zone is screened at MW6-21.
3. Our preliminary interpretation of the results suggest that the depth to the bottom of the Shallow Zone (SZ) aquifer is 323ft. The interval 323-345ft is considered to be an aquitard separating the SZ from the Intermediate Zone (IZ) aquifer.

Please respond to this email with agreement before proceeding with well installation.

Ray

Raymond Chavira
Environmental Scientist/Remedial Project Manager
EPA Region IX
75 Hawthorne Street, SFD-7-3
San Francisco, CA 94105-3901
(415) 947-4218
(415) 947-3528 fax

From: Lee, Don [<mailto:Don.Lee@tetrattech.com>]
Sent: Sunday, April 21, 2013 5:34 PM
To: Chavira, Raymond; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Cc: Bradley.Barquest@utc.com; Mercer, Jim; Parsons, Scott; Skipp, Dave
Subject: 13811 Amar Road piezometer design
Importance: High

Please find attached piezometer design for discussion and concurrence on Monday.

- The uppermost screen at 95-120' below ground surface (bgs) straddles the groundwater surface (approximately 103' bgs based on e-log) to evaluate mounding caused by reinjection.
- The middle screen at 170-185' bgs is to evaluate the aquifer's response to reinjection in the interval where the greatest concentrations of TCE and PCE were detected.
- The lower screen at 305-315' bgs in the coarse grained interval is located below a predominantly fine grained (clay) unit from approximately 230-280' bgs to evaluate aquifer response to reinjection below the SZ in this area.

Please call if you have any questions.

Thanks
Don

Don Lee, PG, CHG | Senior Hydrogeologist

Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010

don.lee@tetrattech.com

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Chavira, Raymond

From: Lee, Don <Don.Lee@tetrattech.com>
Sent: Thursday, April 25, 2013 5:37 PM
To: Bradley.Barquest@utc.com;Parsons, Scott;Chavira, Raymond;Tom Perina (tom.perina@ch2m.com);Kerang.Sun@CH2M.com
Subject: RE: 13811 Amar Road piezometer drilling update - April 25, 2013

Completed today:

- Constructed surface well box.
- Drill rig demobilization.

Planned for tomorrow:

- Initial well development.

Please call if there are any questions.

Thanks

Don

Don Lee, PG, CHG | Senior Hydrogeologist

Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010

don.lee@tetrattech.com

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From: Lee, Don
Sent: Wednesday, April 24, 2013 2:47 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Subject: RE: 13811 Amar Road piezometer drilling update - April 24, 2013

Please find attached draft table summarizing preliminary laboratory analysis results for all depth-discrete groundwater samples.

Completed April 22, 23 and 24:

- Reamed borehole to 360'.
- Placed a bentonite seal from bottom of borehole to approximately 325' prior to installing the piezometers.
- Completed installing 4 piezometers inside the borehole.

Planned for tomorrow:

- Construct surface well box.
- Drill rig demobilization.

Planned for Friday, April 25:

- Initial well development.

Please call if there are any questions.

Thanks
Don

Don Lee, PG, CHG | Senior Hydrogeologist
Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010
don.lee@tetrattech.com

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From: Lee, Don
Sent: Friday, April 19, 2013 4:13 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Subject: RE: 13811 Amar Road piezometer drilling update - April 19, 2013

Please find attached draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date (Sample results to 330').

Completed today:

- Hydropunch sampling attempted at 342'. Groundwater sample was collected.
- Drilled and logged lithology to 360' as requested by the EPA.
- Completed downhole geophysical logging. Files were provided to Tom Perina and Kerang Sun by email on April 19, 2013.

Planned for Monday, April 22:

- Ream and prepare borehole for piezometer installation.

Please call if there are any questions.

Thanks
Don

Don Lee, PG, CHG | Senior Hydrogeologist
Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010
don.lee@tetrattech.com

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From: Lee, Don
Sent: Thursday, April 18, 2013 4:43 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com

Cc: 'Brad.Barquest@comcast.net'

Subject: RE: 13811 Amar Road piezometer drilling update - April 18, 2013

Completed today:

- Hydropunch sampling attempted at 320.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 330'. Groundwater sample was collected.

Planned for tomorrow:

- Drill to 340' and collect last Hydropunch sample at approximately 343'.
- Geophysical logging.

Please call if there are any questions.

Thanks

Don

Don Lee, PG, CHG | Senior Hydrogeologist

Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010

don.lee@tetratech.com

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From: Lee, Don

Sent: Wednesday, April 17, 2013 3:45 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com

Cc: 'Brad.Barquest@comcast.net'

Subject: RE: 13811 Amar Road piezometer drilling update - April 17, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date (Sample results to 270.5').

Completed today:

- Hydropunch sampling attempted at 300'. Groundwater sample was collected.
- Hydropunch sampling attempted at 310'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at approximately 10' interval.

Please call if there are any questions.

Thanks

Don

Don Lee, PG, CHG | Senior Hydrogeologist

Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010

don.lee@tetratech.com

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From: Lee, Don
Sent: Tuesday, April 16, 2013 5:06 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Cc: 'Bradley.Barquest@comcast.net'
Subject: 13811 Amar Road piezometer drilling update - April 16, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date (Sample results to 253'). The current plan is to extend the drilling and depth-discrete groundwater sampling from 275 feet depth to approximately 340 feet depth.

Completed today:

- Hydropunch sampling attempted at 290'. Gravelly soil. Drilling mud was observed inside Hydropunch sampler. No groundwater sample was collected.
- Hydropunch sampling attempted at 293.5'. Dry even after opening additional length of sampler screen.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at approximately 10' interval.

Please call if there are any questions.

Thanks
Don

Don Lee, PG, CHG | Senior Hydrogeologist
Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010
don.lee@tetratech.com

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From: Lee, Don
Sent: Monday, April 15, 2013 5:16 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)
Cc: 'Bradley.Barquest@comcast.net'
Subject: RE: Drilling update - April 15, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date. VOC concentrations in several samples are above the MCLs.

Completed today:

- Hydropunch sampling attempted at 260.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 270.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 280.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at approximately 10' interval.

Please call if there are any questions.

Thanks

Don

Don Lee, PG, CHG | Senior Hydrogeologist

Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010

don.lee@tetrattech.com

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From: Lee, Don

Sent: Friday, April 12, 2013 6:32 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Subject: RE: Drilling update - April 12, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date. VOC concentrations in several samples are above the MCLs.

Completed today:

- Hydropunch sampling attempted at 239'. Groundwater sample was collected.
- Hydropunch sampling attempted at 250'. Gravelly soil. Drilling mud was detected inside sampling rods before opening the Hydropunch sampler. No groundwater sample was collected.
- Hydropunch sampling attempted at 253'. Groundwater sample was collected.

Planned for April 15:

- Continue drilling and Hydropunch sampling at approximately 10' interval.
- Depth of 275' may be reached late Monday April 15 or Tuesday morning.
- Ream borehole on April 16.
- Geophysical logging on April 17.

Please call if there are any questions.

Thanks

Don

Don Lee, PG, CHG | Senior Hydrogeologist

Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010

don.lee@tetrattech.com

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From: Lee, Don
Sent: Friday, April 12, 2013 8:06 AM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)
Subject: RE: Drilling update - April 11, 2013

Completed on April 11:

- Hydropunch sampling attempted at 228'. Gravelly soil. Drilling mud was detected inside Hydropunch sampler. No groundwater sample was collected.
- Pull drilling rods and drill out blockage (likely cobbles) up inside drill shoe. Trip down drilling rods.

Planned for April 12:

- Continue drilling and Hydropunch sampling at 10' interval.

Please call if there are any questions.

Thanks
Don

Don Lee, PG, CHG | Senior Hydrogeologist
Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010
don.lee@tetrattech.com

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From: Lee, Don
Sent: Wednesday, April 10, 2013 8:10 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)
Subject: RE: Drilling update - April 10, 2013

Completed today:

- Hydropunch sampling attempted at 204'. Groundwater sample was collected.
- Hydropunch sampling attempted at 210.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 219.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

Please call if there are any questions.

Thanks
Don

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From: Lee, Don

Sent: Tuesday, April 09, 2013 3:30 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Subject: RE: Drilling update - April 9, 2013

Completed today:

- Hydropunch sampling attempted at 181'. Groundwater sample was collected.
- Hydropunch sampling attempted at 191'. Groundwater sample was collected.
- Hydropunch sampling attempted at 200'. Drilling mud was detected inside sampling rods before opening the Hydropunch sampler. No groundwater sample was collected.

Planned for tomorrow:

- Drill to 203' and attempt Hydropunch sampling at approximately 206'.
- Continue drilling and Hydropunch sampling at 10' interval.

Please call if there are any questions.

Thanks

Don

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From: Lee, Don

Sent: Monday, April 08, 2013 4:34 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Subject: FW: Drilling update - April 8, 2013

Completed today:

- Hydropunch sampling attempted at 161'. Groundwater sample was collected.
- Hydropunch sampling attempted at 170.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

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From: Lee, Don

Sent: Friday, April 05, 2013 5:01 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: RE: Drilling update - April 5, 2013 (updated)

Completed today:

- Hydropunch sampling attempted at 141'. Gravelly. Only able to penetrate 1'. Drilling mud in sample. No sample collected.
- Hydropunch sampling attempted at 146.5'. Soft clay. Dry.
- Hydropunch sampling attempted at 152'. Groundwater sample was collected.

Planned for April 8:

- Continue drilling and Hydropunch sampling at 10' interval.

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From: Lee, Don

Sent: Friday, April 05, 2013 4:18 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: RE: Drilling update - April 5, 2013

Completed today:

- Hydropunch sampling attempted at 141'. Gravelly. Only able to penetrate 1'. Drilling mud in sample. No sample collected.
- Hydropunch sampling attempted at 146.5'. Soft clay. Dry.
- Hydropunch sampling being attempted at 150'.

Planned for April 8:

- Continue drilling and Hydropunch sampling at 10' interval.

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From: Lee, Don
Sent: Thursday, April 04, 2013 4:54 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov
Subject: RE: Drilling update - April 4, 2013

Completed today:

- Hydropunch sampling attempted at 120.5'. Sample collected.
- Hydropunch sampling attempted at 130.5'. Gravelly. Sample collected although sample appeared to contain some drilling mud.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

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From: Lee, Don
Sent: Wednesday, April 03, 2013 9:14 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov
Subject: Drilling update - April 3, 2013

Completed today:

- Hydropunch sampling attempted at 107', 109.5', and 112'. Hard gravel. Drilling mud in samples.
- Hydropunch sampling attempted at 115'. Sample collected although sample appears to contain some drilling mud.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval

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Chavira, Raymond

From: Chavira, Raymond
Sent: Thursday, April 25, 2013 6:01 PM
To: Lee, Don; Bradley.Barquest@utc.com; Parsons, Scott; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Subject: RE: 13811 Amar Road piezometer drilling update - April 25, 2013

Don,

How long do you expect well development to take and how long before we receive groundwater sampling results from the 4-well cluster?

Also, we should plan on having a call to discuss additional UTC's proposed well locations in the reinjection/toe of plume area either prior to or shortly thereafter.

Ray

From: Lee, Don [mailto:Don.Lee@tetrattech.com]
Sent: Thursday, April 25, 2013 5:37 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira, Raymond; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Subject: RE: 13811 Amar Road piezometer drilling update - April 25, 2013

Completed today:

- Constructed surface well box.
- Drill rig demobilization.

Planned for tomorrow:

- Initial well development.

Please call if there are any questions.

Thanks
Don

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From: Lee, Don
Sent: Wednesday, April 24, 2013 2:47 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Subject: RE: 13811 Amar Road piezometer drilling update - April 24, 2013

Please find attached draft table summarizing preliminary laboratory analysis results for all depth-discrete groundwater samples.

Completed April 22, 23 and 24:

- Reamed borehole to 360'.
- Placed a bentonite seal from bottom of borehole to approximately 325' prior to installing the piezometers.
- Completed installing 4 piezometers inside the borehole.

Planned for tomorrow:

- Construct surface well box.
- Drill rig demobilization.

Planned for Friday, April 25:

- Initial well development.

Please call if there are any questions.

Thanks

Don

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From: Lee, Don

Sent: Friday, April 19, 2013 4:13 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com

Subject: RE: 13811 Amar Road piezometer drilling update - April 19, 2013

Please find attached draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date (Sample results to 330').

Completed today:

- Hydropunch sampling attempted at 342'. Groundwater sample was collected.
- Drilled and logged lithology to 360' as requested by the EPA.
- Completed downhole geophysical logging. Files were provided to Tom Perina and Kerang Sun by email on April 19, 2013.

Planned for Monday, April 22:

- Ream and prepare borehole for piezometer installation.

Please call if there are any questions.

Thanks

Don

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From: Lee, Don
Sent: Thursday, April 18, 2013 4:43 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Cc: 'Brad.Barquest@comcast.net'
Subject: RE: 13811 Amar Road piezometer drilling update - April 18, 2013

Completed today:

- Hydropunch sampling attempted at 320.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 330'. Groundwater sample was collected.

Planned for tomorrow:

- Drill to 340' and collect last Hydropunch sample at approximately 343'.
- Geophysical logging.

Please call if there are any questions.

Thanks
Don

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From: Lee, Don
Sent: Wednesday, April 17, 2013 3:45 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Cc: 'Brad.Barquest@comcast.net'
Subject: RE: 13811 Amar Road piezometer drilling update - April 17, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date (Sample results to 270.5').

Completed today:

- Hydropunch sampling attempted at 300'. Groundwater sample was collected.
- Hydropunch sampling attempted at 310'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at approximately 10' interval.

Please call if there are any questions.

Thanks

Don

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From: Lee, Don

Sent: Tuesday, April 16, 2013 5:06 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com

Cc: 'Bradley.Barquest@comcast.net'

Subject: 13811 Amar Road piezometer drilling update - April 16, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date (Sample results to 253'). The current plan is to extend the drilling and depth-discrete groundwater sampling from 275 feet depth to approximately 340 feet depth.

Completed today:

- Hydropunch sampling attempted at 290'. Gravelly soil. Drilling mud was observed inside Hydropunch sampler. No groundwater sample was collected.
- Hydropunch sampling attempted at 293.5'. Dry even after opening additional length of sampler screen.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at approximately 10' interval.

Please call if there are any questions.

Thanks

Don

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From: Lee, Don
Sent: Monday, April 15, 2013 5:16 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)
Cc: 'Bradley.Barquest@comcast.net'
Subject: RE: Drilling update - April 15, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date. VOC concentrations in several samples are above the MCLs.

Completed today:

- Hydropunch sampling attempted at 260.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 270.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 280.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at approximately 10' interval.

Please call if there are any questions.

Thanks
Don

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From: Lee, Don
Sent: Friday, April 12, 2013 6:32 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)
Subject: RE: Drilling update - April 12, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date. VOC concentrations in several samples are above the MCLs.

Completed today:

- Hydropunch sampling attempted at 239'. Groundwater sample was collected.
- Hydropunch sampling attempted at 250'. Gravelly soil. Drilling mud was detected inside sampling rods before opening the Hydropunch sampler. No groundwater sample was collected.
- Hydropunch sampling attempted at 253'. Groundwater sample was collected.

Planned for April 15:

- Continue drilling and Hydropunch sampling at approximately 10' interval.
- Depth of 275' may be reached late Monday April 15 or Tuesday morning.
- Ream borehole on April 16.
- Geophysical logging on April 17.

Please call if there are any questions.

Thanks
Don

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From: Lee, Don

Sent: Friday, April 12, 2013 8:06 AM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Subject: RE: Drilling update - April 11, 2013

Completed on April 11:

- Hydropunch sampling attempted at 228'. Gravelly soil. Drilling mud was detected inside Hydropunch sampler. No groundwater sample was collected.
- Pull drilling rods and drill out blockage (likely cobbles) up inside drill shoe. Trip down drilling rods.

Planned for April 12:

- Continue drilling and Hydropunch sampling at 10' interval.

Please call if there are any questions.

Thanks
Don

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From: Lee, Don

Sent: Wednesday, April 10, 2013 8:10 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Subject: RE: Drilling update - April 10, 2013

Completed today:

- Hydropunch sampling attempted at 204'. Groundwater sample was collected.

- Hydropunch sampling attempted at 210.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 219.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

Please call if there are any questions.

Thanks

Don

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Sent: Tuesday, April 09, 2013 3:30 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Subject: RE: Drilling update - April 9, 2013

Completed today:

- Hydropunch sampling attempted at 181'. Groundwater sample was collected.
- Hydropunch sampling attempted at 191'. Groundwater sample was collected.
- Hydropunch sampling attempted at 200'. Drilling mud was detected inside sampling rods before opening the Hydropunch sampler. No groundwater sample was collected.

Planned for tomorrow:

- Drill to 203' and attempt Hydropunch sampling at approximately 206'.
- Continue drilling and Hydropunch sampling at 10' interval.

Please call if there are any questions.

Thanks

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To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)
Subject: FW: Drilling update - April 8, 2013

Completed today:

- Hydropunch sampling attempted at 161'. Groundwater sample was collected.
- Hydropunch sampling attempted at 170.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

Don Lee, PG, CHG | Senior Hydrogeologist

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From: Lee, Don
Sent: Friday, April 05, 2013 5:01 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov
Subject: RE: Drilling update - April 5, 2013 (updated)

Completed today:

- Hydropunch sampling attempted at 141'. Gravelly. Only able to penetrate 1'. Drilling mud in sample. No sample collected.
- Hydropunch sampling attempted at 146.5'. Soft clay. Dry.
- Hydropunch sampling attempted at 152'. Groundwater sample was collected.

Planned for April 8:

- Continue drilling and Hydropunch sampling at 10' interval.

Don Lee, PG, CHG | Senior Hydrogeologist

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From: Lee, Don
Sent: Friday, April 05, 2013 4:18 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov
Subject: RE: Drilling update - April 5, 2013

Completed today:

- Hydropunch sampling attempted at 141'. Gravelly. Only able to penetrate 1'. Drilling mud in sample. No sample collected.
- Hydropunch sampling attempted at 146.5'. Soft clay. Dry.
- Hydropunch sampling being attempted at 150'.

Planned for April 8:

- Continue drilling and Hydropunch sampling at 10' interval.

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From: Lee, Don

Sent: Thursday, April 04, 2013 4:54 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: RE: Drilling update - April 4, 2013

Completed today:

- Hydropunch sampling attempted at 120.5'. Sample collected.
- Hydropunch sampling attempted at 130.5'. Gravelly. Sample collected although sample appeared to contain some drilling mud.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

Don Lee, PG, CHG | Senior Hydrogeologist

Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010

don.lee@tetrattech.com

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From: Lee, Don

Sent: Wednesday, April 03, 2013 9:14 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: Drilling update - April 3, 2013

Completed today:

- Hydropunch sampling attempted at 107', 109.5', and 112'. Hard gravel. Drilling mud in samples.
- Hydropunch sampling attempted at 115'. Sample collected although sample appears to contain some drilling mud.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval

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Chavira, Raymond

From: Lee, Don <Don.Lee@tetrattech.com>
Sent: Thursday, April 25, 2013 6:09 PM
To: Chavira, Raymond;Bradley.Barquest@utc.com;Parsons, Scott;Tom Perina (tom.perina@ch2m.com);Kerang.Sun@CH2M.com
Subject: RE: 13811 Amar Road piezometer drilling update - April 25, 2013

Ray,

Well development should be completed by May 1. Piezometer samples results should be available approximately May 15 or sooner if we rush it.

Regards,
Don

Don Lee, PG, CHG | Senior Hydrogeologist
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don.lee@tetrattech.com

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From: Chavira, Raymond [mailto:Chavira.Raymond@epa.gov]
Sent: Thursday, April 25, 2013 6:01 PM
To: Lee, Don; Bradley.Barquest@utc.com; Parsons, Scott; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Subject: RE: 13811 Amar Road piezometer drilling update - April 25, 2013

Don,

How long do you expect well development to take and how long before we receive groundwater sampling results from the 4-well cluster?

Also, we should plan on having a call to discuss additional UTC's proposed well locations in the reinjection/toe of plume area either prior to or shortly thereafter.

Ray

From: Lee, Don [mailto:Don.Lee@tetrattech.com]
Sent: Thursday, April 25, 2013 5:37 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira, Raymond; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Subject: RE: 13811 Amar Road piezometer drilling update - April 25, 2013

Completed today:

- Constructed surface well box.
- Drill rig demobilization.

Planned for tomorrow:

- Initial well development.

Please call if there are any questions.

Thanks
Don

Don Lee, PG, CHG | Senior Hydrogeologist
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From: Lee, Don
Sent: Wednesday, April 24, 2013 2:47 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Subject: RE: 13811 Amar Road piezometer drilling update - April 24, 2013

Please find attached draft table summarizing preliminary laboratory analysis results for all depth-discrete groundwater samples.

Completed April 22, 23 and 24:

- Reamed borehole to 360'.
- Placed a bentonite seal from bottom of borehole to approximately 325' prior to installing the piezometers.
- Completed installing 4 piezometers inside the borehole.

Planned for tomorrow:

- Construct surface well box.
- Drill rig demobilization.

Planned for Friday, April 25:

- Initial well development.

Please call if there are any questions.

Thanks
Don

Don Lee, PG, CHG | Senior Hydrogeologist
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From: Lee, Don

Sent: Friday, April 19, 2013 4:13 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com

Subject: RE: 13811 Amar Road piezometer drilling update - April 19, 2013

Please find attached draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date (Sample results to 330').

Completed today:

- Hydropunch sampling attempted at 342'. Groundwater sample was collected.
- Drilled and logged lithology to 360' as requested by the EPA.
- Completed downhole geophysical logging. Files were provided to Tom Perina and Kerang Sun by email on April 19, 2013.

Planned for Monday, April 22:

- Ream and prepare borehole for piezometer installation.

Please call if there are any questions.

Thanks

Don

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From: Lee, Don

Sent: Thursday, April 18, 2013 4:43 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com

Cc: 'Brad.Barquest@comcast.net'

Subject: RE: 13811 Amar Road piezometer drilling update - April 18, 2013

Completed today:

- Hydropunch sampling attempted at 320.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 330'. Groundwater sample was collected.

Planned for tomorrow:

- Drill to 340' and collect last Hydropunch sample at approximately 343'.
- Geophysical logging.

Please call if there are any questions.

Thanks

Don

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From: Lee, Don
Sent: Wednesday, April 17, 2013 3:45 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Cc: 'Brad.Barquest@comcast.net'
Subject: RE: 13811 Amar Road piezometer drilling update - April 17, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date (Sample results to 270.5').

Completed today:

- Hydropunch sampling attempted at 300'. Groundwater sample was collected.
- Hydropunch sampling attempted at 310'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at approximately 10' interval.

Please call if there are any questions.

Thanks

Don

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From: Lee, Don
Sent: Tuesday, April 16, 2013 5:06 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Cc: 'Bradley.Barquest@comcast.net'
Subject: 13811 Amar Road piezometer drilling update - April 16, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date (Sample results to 253'). The current plan is to extend the drilling and depth-discrete groundwater sampling from 275 feet depth to approximately 340 feet depth.

Completed today:

- Hydropunch sampling attempted at 290'. Gravelly soil. Drilling mud was observed inside Hydropunch sampler. No groundwater sample was collected.
- Hydropunch sampling attempted at 293.5'. Dry even after opening additional length of sampler screen.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at approximately 10' interval.

Please call if there are any questions.

Thanks

Don

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From: Lee, Don

Sent: Monday, April 15, 2013 5:16 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Cc: 'Bradley.Barquest@comcast.net'

Subject: RE: Drilling update - April 15, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date. VOC concentrations in several samples are above the MCLs.

Completed today:

- Hydropunch sampling attempted at 260.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 270.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 280.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at approximately 10' interval.

Please call if there are any questions.

Thanks

Don

Don Lee, PG, CHG | Senior Hydrogeologist

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don.lee@tetrattech.com

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From: Lee, Don
Sent: Friday, April 12, 2013 6:32 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)
Subject: RE: Drilling update - April 12, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date. VOC concentrations in several samples are above the MCLs.

Completed today:

- Hydropunch sampling attempted at 239'. Groundwater sample was collected.
- Hydropunch sampling attempted at 250'. Gravelly soil. Drilling mud was detected inside sampling rods before opening the Hydropunch sampler. No groundwater sample was collected.
- Hydropunch sampling attempted at 253'. Groundwater sample was collected.

Planned for April 15:

- Continue drilling and Hydropunch sampling at approximately 10' interval.
- Depth of 275' may be reached late Monday April 15 or Tuesday morning.
- Ream borehole on April 16.
- Geophysical logging on April 17.

Please call if there are any questions.

Thanks
Don

Don Lee, PG, CHG | Senior Hydrogeologist
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don.lee@tetratech.com

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From: Lee, Don
Sent: Friday, April 12, 2013 8:06 AM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)
Subject: RE: Drilling update - April 11, 2013

Completed on April 11:

- Hydropunch sampling attempted at 228'. Gravelly soil. Drilling mud was detected inside Hydropunch sampler. No groundwater sample was collected.
- Pull drilling rods and drill out blockage (likely cobbles) up inside drill shoe. Trip down drilling rods.

Planned for April 12:

- Continue drilling and Hydropunch sampling at 10' interval.

Please call if there are any questions.

Thanks
Don

Don Lee, PG, CHG | Senior Hydrogeologist
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don.lee@tetrattech.com

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From: Lee, Don
Sent: Wednesday, April 10, 2013 8:10 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)
Subject: RE: Drilling update - April 10, 2013

Completed today:

- Hydropunch sampling attempted at 204'. Groundwater sample was collected.
- Hydropunch sampling attempted at 210.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 219.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

Please call if there are any questions.

Thanks
Don

Don Lee, PG, CHG | Senior Hydrogeologist
Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010
don.lee@tetrattech.com

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From: Lee, Don
Sent: Tuesday, April 09, 2013 3:30 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)
Subject: RE: Drilling update - April 9, 2013

Completed today:

- Hydropunch sampling attempted at 181'. Groundwater sample was collected.
- Hydropunch sampling attempted at 191'. Groundwater sample was collected.

- Hydropunch sampling attempted at 200'. Drilling mud was detected inside sampling rods before opening the Hydropunch sampler. No groundwater sample was collected.

Planned for tomorrow:

- Drill to 203' and attempt Hydropunch sampling at approximately 206'.
- Continue drilling and Hydropunch sampling at 10' interval.

Please call if there are any questions.

Thanks

Don

Don Lee, PG, CHG | Senior Hydrogeologist

Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010

don.lee@tetrattech.com

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From: Lee, Don

Sent: Monday, April 08, 2013 4:34 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Subject: FW: Drilling update - April 8, 2013

Completed today:

- Hydropunch sampling attempted at 161'. Groundwater sample was collected.
- Hydropunch sampling attempted at 170.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

Don Lee, PG, CHG | Senior Hydrogeologist

Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010

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From: Lee, Don

Sent: Friday, April 05, 2013 5:01 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: RE: Drilling update - April 5, 2013 (updated)

Completed today:

- Hydropunch sampling attempted at 141'. Gravelly. Only able to penetrate 1'. Drilling mud in sample. No sample collected.

- Hydropunch sampling attempted at 146.5'. Soft clay. Dry.
- Hydropunch sampling attempted at 152'. Groundwater sample was collected.

Planned for April 8:

- Continue drilling and Hydropunch sampling at 10' interval.

Don Lee, PG, CHG | Senior Hydrogeologist

Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010

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From: Lee, Don

Sent: Friday, April 05, 2013 4:18 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: RE: Drilling update - April 5, 2013

Completed today:

- Hydropunch sampling attempted at 141'. Gravelly. Only able to penetrate 1'. Drilling mud in sample. No sample collected.
- Hydropunch sampling attempted at 146.5'. Soft clay. Dry.
- Hydropunch sampling being attempted at 150'.

Planned for April 8:

- Continue drilling and Hydropunch sampling at 10' interval.

Don Lee, PG, CHG | Senior Hydrogeologist

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From: Lee, Don

Sent: Thursday, April 04, 2013 4:54 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: RE: Drilling update - April 4, 2013

Completed today:

- Hydropunch sampling attempted at 120.5'. Sample collected.
- Hydropunch sampling attempted at 130.5'. Gravelly. Sample collected although sample appeared to contain some drilling mud.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

Don Lee, PG, CHG | Senior Hydrogeologist

Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010

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From: Lee, Don

Sent: Wednesday, April 03, 2013 9:14 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: Drilling update - April 3, 2013

Completed today:

- Hydropunch sampling attempted at 107', 109.5', and 112'. Hard gravel. Drilling mud in samples.
- Hydropunch sampling attempted at 115'. Sample collected although sample appears to contain some drilling mud.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval

Don Lee, PG, CHG | Senior Hydrogeologist

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Chavira, Raymond

From: Barquest, Bradley A UTCHQ <Bradley.Barquest@utc.com>
Sent: Friday, April 26, 2013 6:28 AM
To: Lee, Don; Chavira, Raymond; Parsons, Scott; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Subject: RE: 13811 Amar Road piezometer drilling update - April 25, 2013

Don, plan of "rush" laboratory analyses of the sample from the piezometers.

With respect to locations for the next MWs, I suggest a call either on Wednesday May 1, 2013 or the week of May 6, 2013 to discuss preliminary locations and a follow-up after receipt of analytical data to verify/finalize the next location. I will be unavailable on Thursday and Friday (May 2 and 3, 2013).

Bradley A Barquest, R.G.
United Technologies Corporation
Telephone 763-432-5695
e-fax 860-622-0566
bradley.barquest@utc.com

From: Lee, Don [mailto:Don.Lee@tetrattech.com]
Sent: Thursday, April 25, 2013 8:09 PM
To: Chavira, Raymond; Barquest, Bradley A UTCHQ; Parsons, Scott; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Subject: [External] RE: 13811 Amar Road piezometer drilling update - April 25, 2013

Ray,

Well development should be completed by May 1. Piezometer samples results should be available approximately May 15 or sooner if we rush it.

Regards,
Don

Don Lee, PG, CHG | Senior Hydrogeologist
Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010
don.lee@tetrattech.com

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From: Chavira, Raymond [mailto:Chavira.Raymond@epa.gov]
Sent: Thursday, April 25, 2013 6:01 PM
To: Lee, Don; Bradley.Barquest@utc.com; Parsons, Scott; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Subject: RE: 13811 Amar Road piezometer drilling update - April 25, 2013

Don,

How long do you expect well development to take and how long before we receive groundwater sampling results from the 4-well cluster?

Also, we should plan on having a call to discuss additional UTC's proposed well locations in the reinjection/toe of plume area either prior to or shortly thereafter.

Ray

From: Lee, Don [<mailto:Don.Lee@tetrattech.com>]
Sent: Thursday, April 25, 2013 5:37 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira, Raymond; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Subject: RE: 13811 Amar Road piezometer drilling update - April 25, 2013

Completed today:

- Constructed surface well box.
- Drill rig demobilization.

Planned for tomorrow:

- Initial well development.

Please call if there are any questions.

Thanks
Don

Don Lee, PG, CHG | Senior Hydrogeologist
Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010
don.lee@tetrattech.com

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From: Lee, Don
Sent: Wednesday, April 24, 2013 2:47 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Subject: RE: 13811 Amar Road piezometer drilling update - April 24, 2013

Please find attached draft table summarizing preliminary laboratory analysis results for all depth-discrete groundwater samples.

Completed April 22, 23 and 24:

- Reamed borehole to 360'.
- Placed a bentonite seal from bottom of borehole to approximately 325' prior to installing the piezometers.
- Completed installing 4 piezometers inside the borehole.

Planned for tomorrow:

- Construct surface well box.
- Drill rig demobilization.

Planned for Friday, April 25:

- Initial well development.

Please call if there are any questions.

Thanks

Don

Don Lee, PG, CHG | Senior Hydrogeologist

Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010

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From: Lee, Don

Sent: Friday, April 19, 2013 4:13 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com

Subject: RE: 13811 Amar Road piezometer drilling update - April 19, 2013

Please find attached draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date (Sample results to 330').

Completed today:

- Hydropunch sampling attempted at 342'. Groundwater sample was collected.
- Drilled and logged lithology to 360' as requested by the EPA.
- Completed downhole geophysical logging. Files were provided to Tom Perina and Kerang Sun by email on April 19, 2013.

Planned for Monday, April 22:

- Ream and prepare borehole for piezometer installation.

Please call if there are any questions.

Thanks

Don

Don Lee, PG, CHG | Senior Hydrogeologist

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From: Lee, Don

Sent: Thursday, April 18, 2013 4:43 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com

Cc: 'Brad.Barquest@comcast.net'

Subject: RE: 13811 Amar Road piezometer drilling update - April 18, 2013

Completed today:

- Hydropunch sampling attempted at 320.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 330'. Groundwater sample was collected.

Planned for tomorrow:

- Drill to 340' and collect last Hydropunch sample at approximately 343'.
- Geophysical logging.

Please call if there are any questions.

Thanks

Don

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From: Lee, Don

Sent: Wednesday, April 17, 2013 3:45 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com

Cc: 'Brad.Barquest@comcast.net'

Subject: RE: 13811 Amar Road piezometer drilling update - April 17, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date (Sample results to 270.5').

Completed today:

- Hydropunch sampling attempted at 300'. Groundwater sample was collected.
- Hydropunch sampling attempted at 310'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at approximately 10' interval.

Please call if there are any questions.

Thanks

Don

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From: Lee, Don

Sent: Tuesday, April 16, 2013 5:06 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com

Cc: 'Bradley.Barquest@comcast.net'

Subject: 13811 Amar Road piezometer drilling update - April 16, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date (Sample results to 253'). The current plan is to extend the drilling and depth-discrete groundwater sampling from 275 feet depth to approximately 340 feet depth.

Completed today:

- Hydropunch sampling attempted at 290'. Gravelly soil. Drilling mud was observed inside Hydropunch sampler. No groundwater sample was collected.
- Hydropunch sampling attempted at 293.5'. Dry even after opening additional length of sampler screen.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at approximately 10' interval.

Please call if there are any questions.

Thanks

Don

Don Lee, PG, CHG | Senior Hydrogeologist

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From: Lee, Don

Sent: Monday, April 15, 2013 5:16 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Cc: 'Bradley.Barquest@comcast.net'

Subject: RE: Drilling update - April 15, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date. VOC concentrations in several samples are above the MCLs.

Completed today:

- Hydropunch sampling attempted at 260.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 270.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 280.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at approximately 10' interval.

Please call if there are any questions.

Thanks

Don

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From: Lee, Don

Sent: Friday, April 12, 2013 6:32 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Subject: RE: Drilling update - April 12, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date. VOC concentrations in several samples are above the MCLs.

Completed today:

- Hydropunch sampling attempted at 239'. Groundwater sample was collected.
- Hydropunch sampling attempted at 250'. Gravelly soil. Drilling mud was detected inside sampling rods before opening the Hydropunch sampler. No groundwater sample was collected.
- Hydropunch sampling attempted at 253'. Groundwater sample was collected.

Planned for April 15:

- Continue drilling and Hydropunch sampling at approximately 10' interval.
- Depth of 275' may be reached late Monday April 15 or Tuesday morning.
- Ream borehole on April 16.
- Geophysical logging on April 17.

Please call if there are any questions.

Thanks

Don

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From: Lee, Don
Sent: Friday, April 12, 2013 8:06 AM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)
Subject: RE: Drilling update - April 11, 2013

Completed on April 11:

- Hydropunch sampling attempted at 228'. Gravelly soil. Drilling mud was detected inside Hydropunch sampler. No groundwater sample was collected.
- Pull drilling rods and drill out blockage (likely cobbles) up inside drill shoe. Trip down drilling rods.

Planned for April 12:

- Continue drilling and Hydropunch sampling at 10' interval.

Please call if there are any questions.

Thanks
Don

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From: Lee, Don
Sent: Wednesday, April 10, 2013 8:10 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)
Subject: RE: Drilling update - April 10, 2013

Completed today:

- Hydropunch sampling attempted at 204'. Groundwater sample was collected.
- Hydropunch sampling attempted at 210.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 219.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

Please call if there are any questions.

Thanks
Don

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From: Lee, Don
Sent: Tuesday, April 09, 2013 3:30 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)
Subject: RE: Drilling update - April 9, 2013

Completed today:

- Hydropunch sampling attempted at 181'. Groundwater sample was collected.
- Hydropunch sampling attempted at 191'. Groundwater sample was collected.
- Hydropunch sampling attempted at 200'. Drilling mud was detected inside sampling rods before opening the Hydropunch sampler. No groundwater sample was collected.

Planned for tomorrow:

- Drill to 203' and attempt Hydropunch sampling at approximately 206'.
- Continue drilling and Hydropunch sampling at 10' interval.

Please call if there are any questions.

Thanks
Don

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From: Lee, Don
Sent: Monday, April 08, 2013 4:34 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)
Subject: FW: Drilling update - April 8, 2013

Completed today:

- Hydropunch sampling attempted at 161'. Groundwater sample was collected.
- Hydropunch sampling attempted at 170.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

Don Lee, PG, CHG | Senior Hydrogeologist
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From: Lee, Don
Sent: Friday, April 05, 2013 5:01 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov
Subject: RE: Drilling update - April 5, 2013 (updated)

Completed today:

- Hydropunch sampling attempted at 141'. Gravelly. Only able to penetrate 1'. Drilling mud in sample. No sample collected.
- Hydropunch sampling attempted at 146.5'. Soft clay. Dry.
- Hydropunch sampling attempted at 152'. Groundwater sample was collected.

Planned for April 8:

- Continue drilling and Hydropunch sampling at 10' interval.

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From: Lee, Don
Sent: Friday, April 05, 2013 4:18 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov
Subject: RE: Drilling update - April 5, 2013

Completed today:

- Hydropunch sampling attempted at 141'. Gravelly. Only able to penetrate 1'. Drilling mud in sample. No sample collected.
- Hydropunch sampling attempted at 146.5'. Soft clay. Dry.
- Hydropunch sampling being attempted at 150'.

Planned for April 8:

- Continue drilling and Hydropunch sampling at 10' interval.

Don Lee, PG, CHG | Senior Hydrogeologist
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From: Lee, Don

Sent: Thursday, April 04, 2013 4:54 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: RE: Drilling update - April 4, 2013

Completed today:

- Hydropunch sampling attempted at 120.5'. Sample collected.
- Hydropunch sampling attempted at 130.5'. Gravelly. Sample collected although sample appeared to contain some drilling mud.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

Don Lee, PG, CHG | Senior Hydrogeologist

Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010

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From: Lee, Don

Sent: Wednesday, April 03, 2013 9:14 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: Drilling update - April 3, 2013

Completed today:

- Hydropunch sampling attempted at 107', 109.5', and 112'. Hard gravel. Drilling mud in samples.
- Hydropunch sampling attempted at 115'. Sample collected although sample appears to contain some drilling mud.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval

Don Lee, PG, CHG | Senior Hydrogeologist

Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010

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Chavira, Raymond

From: Tom.Perina@CH2M.com
Sent: Friday, April 26, 2013 6:58 AM
To: Bradley.Barquest@utc.com; Don.Lee@tetrattech.com; Chavira, Raymond; Scott.Parsons@tetrattech.com; Kerang.Sun@CH2M.com
Subject: RE: 13811 Amar Road piezometer drilling update - April 25, 2013

Brad,
I suggest May 1, and please send us a map marked up with the locations ahead of the call.
May 6-8 doesn't work well for me (May 7 not at all).
Tom

From: Barquest, Bradley A UTCHQ [mailto:Bradley.Barquest@utc.com]
Sent: Friday, April 26, 2013 6:28 AM
To: Lee, Don; Chavira, Raymond; Parsons, Scott; Perina, Tom/RIV; Sun, Kerang/SCO
Subject: RE: 13811 Amar Road piezometer drilling update - April 25, 2013

Don, plan of "rush" laboratory analyses of the sample from the piezometers.

With respect to locations for the next MWs, I suggest a call either on Wednesday May 1, 2013 of the week of May 6, 2013 to discuss preliminary locations and a follow-up after receipt of analytical data to verify/finalize the next location. I will be unavailable on Thursday and Friday (May 2 and 3, 2013).

Bradley A Barquest, R.G.
United Technologies Corporation
Telephone 763-432-5695
e-fax 860-622-0566
bradley.barquest@utc.com

From: Lee, Don [mailto:Don.Lee@tetrattech.com]
Sent: Thursday, April 25, 2013 8:09 PM
To: Chavira, Raymond; Barquest, Bradley A UTCHQ; Parsons, Scott; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Subject: [External] RE: 13811 Amar Road piezometer drilling update - April 25, 2013

Ray,

Well development should be completed by May 1. Piezometer samples results should be available approximately May 15 or sooner if we rush it.

Regards,
Don

Don Lee, PG, CHG | Senior Hydrogeologist
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don.lee@tetrattech.com

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From: Chavira, Raymond [<mailto:Chavira.Raymond@epa.gov>]
Sent: Thursday, April 25, 2013 6:01 PM
To: Lee, Don; Bradley.Barquest@utc.com; Parsons, Scott; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Subject: RE: 13811 Amar Road piezometer drilling update - April 25, 2013

Don,

How long do you expect well development to take and how long before we receive groundwater sampling results from the 4-well cluster?

Also, we should plan on having a call to discuss additional UTC's proposed well locations in the reinjection/toe of plume area either prior to or shortly thereafter.

Ray

From: Lee, Don [<mailto:Don.Lee@tetrattech.com>]
Sent: Thursday, April 25, 2013 5:37 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira, Raymond; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Subject: RE: 13811 Amar Road piezometer drilling update - April 25, 2013

Completed today:

- Constructed surface well box.
- Drill rig demobilization.

Planned for tomorrow:

- Initial well development.

Please call if there are any questions.

Thanks
Don

Don Lee, PG, CHG | Senior Hydrogeologist
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From: Lee, Don
Sent: Wednesday, April 24, 2013 2:47 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Subject: RE: 13811 Amar Road piezometer drilling update - April 24, 2013

Please find attached draft table summarizing preliminary laboratory analysis results for all depth-discrete groundwater samples.

Completed April 22, 23 and 24:

- Reamed borehole to 360'.
- Placed a bentonite seal from bottom of borehole to approximately 325' prior to installing the piezometers.
- Completed installing 4 piezometers inside the borehole.

Planned for tomorrow:

- Construct surface well box.
- Drill rig demobilization.

Planned for Friday, April 25:

- Initial well development.

Please call if there are any questions.

Thanks
Don

Don Lee, PG, CHG | Senior Hydrogeologist

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From: Lee, Don

Sent: Friday, April 19, 2013 4:13 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com

Subject: RE: 13811 Amar Road piezometer drilling update - April 19, 2013

Please find attached draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date (Sample results to 330').

Completed today:

- Hydropunch sampling attempted at 342'. Groundwater sample was collected.
- Drilled and logged lithology to 360' as requested by the EPA.
- Completed downhole geophysical logging. Files were provided to Tom Perina and Kerang Sun by email on April 19, 2013.

Planned for Monday, April 22:

- Ream and prepare borehole for piezometer installation.

Please call if there are any questions.

Thanks
Don

Don Lee, PG, CHG | Senior Hydrogeologist
Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010
don.lee@tetrattech.com

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From: Lee, Don
Sent: Thursday, April 18, 2013 4:43 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Cc: 'Brad.Barquest@comcast.net'
Subject: RE: 13811 Amar Road piezometer drilling update - April 18, 2013

Completed today:

- Hydropunch sampling attempted at 320.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 330'. Groundwater sample was collected.

Planned for tomorrow:

- Drill to 340' and collect last Hydropunch sample at approximately 343'.
- Geophysical logging.

Please call if there are any questions.

Thanks
Don

Don Lee, PG, CHG | Senior Hydrogeologist
Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010
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From: Lee, Don
Sent: Wednesday, April 17, 2013 3:45 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Cc: 'Brad.Barquest@comcast.net'
Subject: RE: 13811 Amar Road piezometer drilling update - April 17, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date (Sample results to 270.5').

Completed today:

- Hydropunch sampling attempted at 300'. Groundwater sample was collected.

- Hydropunch sampling attempted at 310'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at approximately 10' interval.

Please call if there are any questions.

Thanks

Don

Don Lee, PG, CHG | Senior Hydrogeologist

Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010

don.lee@tetrattech.com

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From: Lee, Don

Sent: Tuesday, April 16, 2013 5:06 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com

Cc: 'Bradley.Barquest@comcast.net'

Subject: 13811 Amar Road piezometer drilling update - April 16, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date (Sample results to 253'). The current plan is to extend the drilling and depth-discrete groundwater sampling from 275 feet depth to approximately 340 feet depth.

Completed today:

- Hydropunch sampling attempted at 290'. Gravelly soil. Drilling mud was observed inside Hydropunch sampler. No groundwater sample was collected.
- Hydropunch sampling attempted at 293.5'. Dry even after opening additional length of sampler screen.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at approximately 10' interval.

Please call if there are any questions.

Thanks

Don

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From: Lee, Don
Sent: Monday, April 15, 2013 5:16 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)
Cc: 'Bradley.Barquest@comcast.net'
Subject: RE: Drilling update - April 15, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date. VOC concentrations in several samples are above the MCLs.

Completed today:

- Hydropunch sampling attempted at 260.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 270.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 280.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at approximately 10' interval.

Please call if there are any questions.

Thanks

Don

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From: Lee, Don
Sent: Friday, April 12, 2013 6:32 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)
Subject: RE: Drilling update - April 12, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date. VOC concentrations in several samples are above the MCLs.

Completed today:

- Hydropunch sampling attempted at 239'. Groundwater sample was collected.
- Hydropunch sampling attempted at 250'. Gravelly soil. Drilling mud was detected inside sampling rods before opening the Hydropunch sampler. No groundwater sample was collected.
- Hydropunch sampling attempted at 253'. Groundwater sample was collected.

Planned for April 15:

- Continue drilling and Hydropunch sampling at approximately 10' interval.
- Depth of 275' may be reached late Monday April 15 or Tuesday morning.
- Ream borehole on April 16.
- Geophysical logging on April 17.

Please call if there are any questions.

Thanks
Don

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From: Lee, Don
Sent: Friday, April 12, 2013 8:06 AM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)
Subject: RE: Drilling update - April 11, 2013

Completed on April 11:

- Hydropunch sampling attempted at 228'. Gravelly soil. Drilling mud was detected inside Hydropunch sampler. No groundwater sample was collected.
- Pull drilling rods and drill out blockage (likely cobbles) up inside drill shoe. Trip down drilling rods.

Planned for April 12:

- Continue drilling and Hydropunch sampling at 10' interval.

Please call if there are any questions.

Thanks
Don

Don Lee, PG, CHG | Senior Hydrogeologist
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From: Lee, Don
Sent: Wednesday, April 10, 2013 8:10 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)
Subject: RE: Drilling update - April 10, 2013

Completed today:

- Hydropunch sampling attempted at 204'. Groundwater sample was collected.
- Hydropunch sampling attempted at 210.5'. Groundwater sample was collected.

- Hydropunch sampling attempted at 219.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

Please call if there are any questions.

Thanks

Don

Don Lee, PG, CHG | Senior Hydrogeologist

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From: Lee, Don

Sent: Tuesday, April 09, 2013 3:30 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Subject: RE: Drilling update - April 9, 2013

Completed today:

- Hydropunch sampling attempted at 181'. Groundwater sample was collected.
- Hydropunch sampling attempted at 191'. Groundwater sample was collected.
- Hydropunch sampling attempted at 200'. Drilling mud was detected inside sampling rods before opening the Hydropunch sampler. No groundwater sample was collected.

Planned for tomorrow:

- Drill to 203' and attempt Hydropunch sampling at approximately 206'.
- Continue drilling and Hydropunch sampling at 10' interval.

Please call if there are any questions.

Thanks

Don

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From: Lee, Don

Sent: Monday, April 08, 2013 4:34 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Subject: FW: Drilling update - April 8, 2013

Completed today:

- Hydropunch sampling attempted at 161'. Groundwater sample was collected.
- Hydropunch sampling attempted at 170.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

Don Lee, PG, CHG | Senior Hydrogeologist

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From: Lee, Don

Sent: Friday, April 05, 2013 5:01 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: RE: Drilling update - April 5, 2013 (updated)

Completed today:

- Hydropunch sampling attempted at 141'. Gravelly. Only able to penetrate 1'. Drilling mud in sample. No sample collected.
- Hydropunch sampling attempted at 146.5'. Soft clay. Dry.
- Hydropunch sampling attempted at 152'. Groundwater sample was collected.

Planned for April 8:

- Continue drilling and Hydropunch sampling at 10' interval.

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From: Lee, Don

Sent: Friday, April 05, 2013 4:18 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: RE: Drilling update - April 5, 2013

Completed today:

- Hydropunch sampling attempted at 141'. Gravelly. Only able to penetrate 1'. Drilling mud in sample. No sample collected.

- Hydropunch sampling attempted at 146.5'. Soft clay. Dry.
- Hydropunch sampling being attempted at 150'.

Planned for April 8:

- Continue drilling and Hydropunch sampling at 10' interval.

Don Lee, PG, CHG | Senior Hydrogeologist

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From: Lee, Don

Sent: Thursday, April 04, 2013 4:54 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: RE: Drilling update - April 4, 2013

Completed today:

- Hydropunch sampling attempted at 120.5'. Sample collected.
- Hydropunch sampling attempted at 130.5'. Gravelly. Sample collected although sample appeared to contain some drilling mud.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

Don Lee, PG, CHG | Senior Hydrogeologist

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From: Lee, Don

Sent: Wednesday, April 03, 2013 9:14 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: Drilling update - April 3, 2013

Completed today:

- Hydropunch sampling attempted at 107', 109.5', and 112'. Hard gravel. Drilling mud in samples.
- Hydropunch sampling attempted at 115'. Sample collected although sample appears to contain some drilling mud.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval

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Chavira, Raymond

From: Chavira, Raymond
Sent: Friday, April 26, 2013 9:08 AM
To: Tom.Perina@CH2M.com;Bradley.Barquest@utc.com;Don.Lee@tetrattech.com;Scott.Parsons@tetrattech.com;Kerang.Sun@CH2M.com
Subject: RE: 13811 Amar Road piezometer drilling update - April 25, 2013

I agree. Let's set something up for the afternoon of May 1 anytime after 1 PM PDT.

Ray

From: Tom.Perina@CH2M.com [mailto:Tom.Perina@CH2M.com]
Sent: Friday, April 26, 2013 6:58 AM
To: Bradley.Barquest@utc.com; Don.Lee@tetrattech.com; Chavira, Raymond; Scott.Parsons@tetrattech.com; Kerang.Sun@CH2M.com
Subject: RE: 13811 Amar Road piezometer drilling update - April 25, 2013

Brad,
I suggest May 1, and please send us a map marked up with the locations ahead of the call.
May 6-8 doesn't work well for me (May 7 not at all).
Tom

From: Barquest, Bradley A UTCHQ [mailto:Bradley.Barquest@utc.com]
Sent: Friday, April 26, 2013 6:28 AM
To: Lee, Don; Chavira, Raymond; Parsons, Scott; Perina, Tom/RIV; Sun, Kerang/SCO
Subject: RE: 13811 Amar Road piezometer drilling update - April 25, 2013

Don, plan of "rush" laboratory analyses of the sample from the piezometers.

With respect to locations for the next MWs, I suggest a call either on Wednesday May 1, 2013 or the week of May 6, 2013 to discuss preliminary locations and a follow-up after receipt of analytical data to verify/finalize the next location. I will be unavailable on Thursday and Friday (May 2 and 3, 2013).

Bradley A Barquest, R.G.
United Technologies Corporation
Telephone 763-432-5695
e-fax 860-622-0566
bradley.barquest@utc.com

From: Lee, Don [mailto:Don.Lee@tetrattech.com]
Sent: Thursday, April 25, 2013 8:09 PM
To: Chavira, Raymond; Barquest, Bradley A UTCHQ; Parsons, Scott; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Subject: [External] RE: 13811 Amar Road piezometer drilling update - April 25, 2013

Ray,

Well development should be completed by May 1. Piezometer samples results should be available approximately May 15 or sooner if we rush it.

Regards,

Don

Don Lee, PG, CHG | Senior Hydrogeologist

Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010

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From: Chavira, Raymond [<mailto:Chavira.Raymond@epa.gov>]

Sent: Thursday, April 25, 2013 6:01 PM

To: Lee, Don; Bradley.Barquest@utc.com; Parsons, Scott; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com

Subject: RE: 13811 Amar Road piezometer drilling update - April 25, 2013

Don,

How long do you expect well development to take and how long before we receive groundwater sampling results from the 4-well cluster?

Also, we should plan on having a call to discuss additional UTC's proposed well locations in the reinjection/toe of plume area either prior to or shortly thereafter.

Ray

From: Lee, Don [<mailto:Don.Lee@tetrattech.com>]

Sent: Thursday, April 25, 2013 5:37 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira, Raymond; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com

Subject: RE: 13811 Amar Road piezometer drilling update - April 25, 2013

Completed today:

- Constructed surface well box.
- Drill rig demobilization.

Planned for tomorrow:

- Initial well development.

Please call if there are any questions.

Thanks

Don

Don Lee, PG, CHG | Senior Hydrogeologist

Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010

don.lee@tetrattech.com

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From: Lee, Don
Sent: Wednesday, April 24, 2013 2:47 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Subject: RE: 13811 Amar Road piezometer drilling update - April 24, 2013

Please find attached draft table summarizing preliminary laboratory analysis results for all depth-discrete groundwater samples.

Completed April 22, 23 and 24:

- Reamed borehole to 360'.
- Placed a bentonite seal from bottom of borehole to approximately 325' prior to installing the piezometers.
- Completed installing 4 piezometers inside the borehole.

Planned for tomorrow:

- Construct surface well box.
- Drill rig demobilization.

Planned for Friday, April 25:

- Initial well development.

Please call if there are any questions.

Thanks
Don

Don Lee, PG, CHG | Senior Hydrogeologist
Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010
don.lee@tetrattech.com

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From: Lee, Don
Sent: Friday, April 19, 2013 4:13 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Subject: RE: 13811 Amar Road piezometer drilling update - April 19, 2013

Please find attached draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date (Sample results to 330').

Completed today:

- Hydropunch sampling attempted at 342'. Groundwater sample was collected.
- Drilled and logged lithology to 360' as requested by the EPA.
- Completed downhole geophysical logging. Files were provided to Tom Perina and Kerang Sun by email on April 19, 2013.

Planned for Monday, April 22:

- Ream and prepare borehole for piezometer installation.

Please call if there are any questions.

Thanks

Don

Don Lee, PG, CHG | Senior Hydrogeologist

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From: Lee, Don

Sent: Thursday, April 18, 2013 4:43 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com

Cc: 'Brad.Barquest@comcast.net'

Subject: RE: 13811 Amar Road piezometer drilling update - April 18, 2013

Completed today:

- Hydropunch sampling attempted at 320.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 330'. Groundwater sample was collected.

Planned for tomorrow:

- Drill to 340' and collect last Hydropunch sample at approximately 343'.
- Geophysical logging.

Please call if there are any questions.

Thanks

Don

Don Lee, PG, CHG | Senior Hydrogeologist

Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010

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From: Lee, Don

Sent: Wednesday, April 17, 2013 3:45 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina

(tom.perina@ch2m.com); Kerang.Sun@CH2M.com

Cc: 'Brad.Barquest@comcast.net'

Subject: RE: 13811 Amar Road piezometer drilling update - April 17, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date (Sample results to 270.5').

Completed today:

- Hydropunch sampling attempted at 300'. Groundwater sample was collected.
- Hydropunch sampling attempted at 310'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at approximately 10' interval.

Please call if there are any questions.

Thanks

Don

Don Lee, PG, CHG | Senior Hydrogeologist

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From: Lee, Don

Sent: Tuesday, April 16, 2013 5:06 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina

(tom.perina@ch2m.com); Kerang.Sun@CH2M.com

Cc: 'Bradley.Barquest@comcast.net'

Subject: 13811 Amar Road piezometer drilling update - April 16, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date (Sample results to 253'). The current plan is to extend the drilling and depth-discrete groundwater sampling from 275 feet depth to approximately 340 feet depth.

Completed today:

- Hydropunch sampling attempted at 290'. Gravelly soil. Drilling mud was observed inside Hydropunch sampler. No groundwater sample was collected.
- Hydropunch sampling attempted at 293.5'. Dry even after opening additional length of sampler screen.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at approximately 10' interval.

Please call if there are any questions.

Thanks

Don

Don Lee, PG, CHG | Senior Hydrogeologist

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From: Lee, Don

Sent: Monday, April 15, 2013 5:16 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Cc: 'Bradley.Barquest@comcast.net'

Subject: RE: Drilling update - April 15, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date. VOC concentrations in several samples are above the MCLs.

Completed today:

- Hydropunch sampling attempted at 260.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 270.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 280.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at approximately 10' interval.

Please call if there are any questions.

Thanks

Don

Don Lee, PG, CHG | Senior Hydrogeologist

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From: Lee, Don

Sent: Friday, April 12, 2013 6:32 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Subject: RE: Drilling update - April 12, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date. VOC concentrations in several samples are above the MCLs.

Completed today:

- Hydropunch sampling attempted at 239'. Groundwater sample was collected.

- Hydropunch sampling attempted at 250'. Gravelly soil. Drilling mud was detected inside sampling rods before opening the Hydropunch sampler. No groundwater sample was collected.
- Hydropunch sampling attempted at 253'. Groundwater sample was collected.

Planned for April 15:

- Continue drilling and Hydropunch sampling at approximately 10' interval.
- Depth of 275' may be reached late Monday April 15 or Tuesday morning.
- Ream borehole on April 16.
- Geophysical logging on April 17.

Please call if there are any questions.

Thanks
Don

Don Lee, PG, CHG | Senior Hydrogeologist

Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010

don.lee@tetrattech.com

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From: Lee, Don

Sent: Friday, April 12, 2013 8:06 AM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Subject: RE: Drilling update - April 11, 2013

Completed on April 11:

- Hydropunch sampling attempted at 228'. Gravelly soil. Drilling mud was detected inside Hydropunch sampler. No groundwater sample was collected.
- Pull drilling rods and drill out blockage (likely cobbles) up inside drill shoe. Trip down drilling rods.

Planned for April 12:

- Continue drilling and Hydropunch sampling at 10' interval.

Please call if there are any questions.

Thanks
Don

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From: Lee, Don
Sent: Wednesday, April 10, 2013 8:10 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)
Subject: RE: Drilling update - April 10, 2013

Completed today:

- Hydropunch sampling attempted at 204'. Groundwater sample was collected.
- Hydropunch sampling attempted at 210.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 219.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

Please call if there are any questions.

Thanks
Don

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From: Lee, Don
Sent: Tuesday, April 09, 2013 3:30 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)
Subject: RE: Drilling update - April 9, 2013

Completed today:

- Hydropunch sampling attempted at 181'. Groundwater sample was collected.
- Hydropunch sampling attempted at 191'. Groundwater sample was collected.
- Hydropunch sampling attempted at 200'. Drilling mud was detected inside sampling rods before opening the Hydropunch sampler. No groundwater sample was collected.

Planned for tomorrow:

- Drill to 203' and attempt Hydropunch sampling at approximately 206'.
- Continue drilling and Hydropunch sampling at 10' interval.

Please call if there are any questions.

Thanks
Don

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From: Lee, Don

Sent: Monday, April 08, 2013 4:34 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Subject: FW: Drilling update - April 8, 2013

Completed today:

- Hydropunch sampling attempted at 161'. Groundwater sample was collected.
- Hydropunch sampling attempted at 170.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

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From: Lee, Don

Sent: Friday, April 05, 2013 5:01 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: RE: Drilling update - April 5, 2013 (updated)

Completed today:

- Hydropunch sampling attempted at 141'. Gravelly. Only able to penetrate 1'. Drilling mud in sample. No sample collected.
- Hydropunch sampling attempted at 146.5'. Soft clay. Dry.
- Hydropunch sampling attempted at 152'. Groundwater sample was collected.

Planned for April 8:

- Continue drilling and Hydropunch sampling at 10' interval.

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From: Lee, Don
Sent: Friday, April 05, 2013 4:18 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov
Subject: RE: Drilling update - April 5, 2013

Completed today:

- Hydropunch sampling attempted at 141'. Gravelly. Only able to penetrate 1'. Drilling mud in sample. No sample collected.
- Hydropunch sampling attempted at 146.5'. Soft clay. Dry.
- Hydropunch sampling being attempted at 150'.

Planned for April 8:

- Continue drilling and Hydropunch sampling at 10' interval.

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From: Lee, Don
Sent: Thursday, April 04, 2013 4:54 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov
Subject: RE: Drilling update - April 4, 2013

Completed today:

- Hydropunch sampling attempted at 120.5'. Sample collected.
- Hydropunch sampling attempted at 130.5'. Gravelly. Sample collected although sample appeared to contain some drilling mud.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

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From: Lee, Don
Sent: Wednesday, April 03, 2013 9:14 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: Drilling update - April 3, 2013

Completed today:

- Hydropunch sampling attempted at 107', 109.5', and 112'. Hard gravel. Drilling mud in samples.
- Hydropunch sampling attempted at 115'. Sample collected although sample appears to contain some drilling mud.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval

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Chavira, Raymond

From: Parsons, Scott <Scott.Parsons@tetrattech.com>
Sent: Friday, April 26, 2013 10:42 AM
To: Mike.Grigorieff@CH2M.com;Chavira, Raymond
Cc: Bradley A Barquest (bradley.barquest@utc.com)
Subject: Preliminary Design

Mike,

We would like to have a conference call to discuss the Preliminary Design comments. What is your availability next week?

Chavira, Raymond

From: Lee, Don <Don.Lee@tetrattech.com>
Sent: Friday, April 26, 2013 4:01 PM
To: Bradley.Barquest@utc.com;Parsons, Scott;Chavira, Raymond;Tom Perina (tom.perina@ch2m.com);Kerang.Sun@CH2M.com
Subject: RE: 13811 Amar Road piezometer drilling update - April 26, 2013

Completed today:

- Completed initial well development of 4 nested piezometers.

Planned for Monday, April 29 to Wednesday, May 1, 2013:

- Final well development.
- Piezometer water sampling. One week turnaround time will be requested for laboratory analysis.
- Well elevation survey.

Please call if there are any questions.

Thanks
Don

Don Lee, PG, CHG | Senior Hydrogeologist
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From: Lee, Don
Sent: Thursday, April 25, 2013 5:41 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Subject: RE: 13811 Amar Road piezometer drilling update - April 25, 2013

Completed today:

- Constructed surface well box.
- Drill rig demobilization.

Planned for tomorrow:

- Initial well development.

Please call if there are any questions.

Thanks
Don

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From: Lee, Don

Sent: Wednesday, April 24, 2013 2:47 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com

Subject: RE: 13811 Amar Road piezometer drilling update - April 24, 2013

Please find attached draft table summarizing preliminary laboratory analysis results for all depth-discrete groundwater samples.

Completed April 22, 23 and 24:

- Reamed borehole to 360'.
- Placed a bentonite seal from bottom of borehole to approximately 325' prior to installing the piezometers.
- Completed installing 4 piezometers inside the borehole.

Planned for tomorrow:

- Construct surface well box.
- Drill rig demobilization.

Planned for Friday, April 25:

- Initial well development.

Please call if there are any questions.

Thanks

Don

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From: Lee, Don

Sent: Friday, April 19, 2013 4:13 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com

Subject: RE: 13811 Amar Road piezometer drilling update - April 19, 2013

Please find attached draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date (Sample results to 330').

Completed today:

- Hydropunch sampling attempted at 342'. Groundwater sample was collected.
- Drilled and logged lithology to 360' as requested by the EPA.
- Completed downhole geophysical logging. Files were provided to Tom Perina and Kerang Sun by email on April 19, 2013.

Planned for Monday, April 22:

- Ream and prepare borehole for piezometer installation.

Please call if there are any questions.

Thanks

Don

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From: Lee, Don

Sent: Thursday, April 18, 2013 4:43 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com

Cc: 'Brad.Barquest@comcast.net'

Subject: RE: 13811 Amar Road piezometer drilling update - April 18, 2013

Completed today:

- Hydropunch sampling attempted at 320.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 330'. Groundwater sample was collected.

Planned for tomorrow:

- Drill to 340' and collect last Hydropunch sample at approximately 343'.
- Geophysical logging.

Please call if there are any questions.

Thanks

Don

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From: Lee, Don
Sent: Wednesday, April 17, 2013 3:45 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Cc: 'Brad.Barquest@comcast.net'
Subject: RE: 13811 Amar Road piezometer drilling update - April 17, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date (Sample results to 270.5').

Completed today:

- Hydropunch sampling attempted at 300'. Groundwater sample was collected.
- Hydropunch sampling attempted at 310'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at approximately 10' interval.

Please call if there are any questions.

Thanks

Don

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From: Lee, Don
Sent: Tuesday, April 16, 2013 5:06 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Cc: 'Bradley.Barquest@comcast.net'
Subject: 13811 Amar Road piezometer drilling update - April 16, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date (Sample results to 253'). The current plan is to extend the drilling and depth-discrete groundwater sampling from 275 feet depth to approximately 340 feet depth.

Completed today:

- Hydropunch sampling attempted at 290'. Gravelly soil. Drilling mud was observed inside Hydropunch sampler. No groundwater sample was collected.
- Hydropunch sampling attempted at 293.5'. Dry even after opening additional length of sampler screen.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at approximately 10' interval.

Please call if there are any questions.

Thanks
Don

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From: Lee, Don
Sent: Monday, April 15, 2013 5:16 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)
Cc: 'Bradley.Barquest@comcast.net'
Subject: RE: Drilling update - April 15, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date. VOC concentrations in several samples are above the MCLs.

Completed today:

- Hydropunch sampling attempted at 260.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 270.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 280.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at approximately 10' interval.

Please call if there are any questions.

Thanks
Don

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From: Lee, Don
Sent: Friday, April 12, 2013 6:32 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)
Subject: RE: Drilling update - April 12, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date. VOC concentrations in several samples are above the MCLs.

Completed today:

- Hydropunch sampling attempted at 239'. Groundwater sample was collected.
- Hydropunch sampling attempted at 250'. Gravelly soil. Drilling mud was detected inside sampling rods before opening the Hydropunch sampler. No groundwater sample was collected.
- Hydropunch sampling attempted at 253'. Groundwater sample was collected.

Planned for April 15:

- Continue drilling and Hydropunch sampling at approximately 10' interval.
- Depth of 275' may be reached late Monday April 15 or Tuesday morning.
- Ream borehole on April 16.
- Geophysical logging on April 17.

Please call if there are any questions.

Thanks
Don

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Sent: Friday, April 12, 2013 8:06 AM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Subject: RE: Drilling update - April 11, 2013

Completed on April 11:

- Hydropunch sampling attempted at 228'. Gravelly soil. Drilling mud was detected inside Hydropunch sampler. No groundwater sample was collected.
- Pull drilling rods and drill out blockage (likely cobbles) up inside drill shoe. Trip down drilling rods.

Planned for April 12:

- Continue drilling and Hydropunch sampling at 10' interval.

Please call if there are any questions.

Thanks
Don

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From: Lee, Don

Sent: Wednesday, April 10, 2013 8:10 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Subject: RE: Drilling update - April 10, 2013

Completed today:

- Hydropunch sampling attempted at 204'. Groundwater sample was collected.
- Hydropunch sampling attempted at 210.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 219.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

Please call if there are any questions.

Thanks

Don

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To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Subject: RE: Drilling update - April 9, 2013

Completed today:

- Hydropunch sampling attempted at 181'. Groundwater sample was collected.
- Hydropunch sampling attempted at 191'. Groundwater sample was collected.
- Hydropunch sampling attempted at 200'. Drilling mud was detected inside sampling rods before opening the Hydropunch sampler. No groundwater sample was collected.

Planned for tomorrow:

- Drill to 203' and attempt Hydropunch sampling at approximately 206'.
- Continue drilling and Hydropunch sampling at 10' interval.

Please call if there are any questions.

Thanks

Don

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From: Lee, Don

Sent: Monday, April 08, 2013 4:34 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Subject: FW: Drilling update - April 8, 2013

Completed today:

- Hydropunch sampling attempted at 161'. Groundwater sample was collected.
- Hydropunch sampling attempted at 170.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

Don Lee, PG, CHG | Senior Hydrogeologist

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From: Lee, Don

Sent: Friday, April 05, 2013 5:01 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: RE: Drilling update - April 5, 2013 (updated)

Completed today:

- Hydropunch sampling attempted at 141'. Gravelly. Only able to penetrate 1'. Drilling mud in sample. No sample collected.
- Hydropunch sampling attempted at 146.5'. Soft clay. Dry.
- Hydropunch sampling attempted at 152'. Groundwater sample was collected.

Planned for April 8:

- Continue drilling and Hydropunch sampling at 10' interval.

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From: Lee, Don

Sent: Friday, April 05, 2013 4:18 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: RE: Drilling update - April 5, 2013

Completed today:

- Hydropunch sampling attempted at 141'. Gravelly. Only able to penetrate 1'. Drilling mud in sample. No sample collected.
- Hydropunch sampling attempted at 146.5'. Soft clay. Dry.
- Hydropunch sampling being attempted at 150'.

Planned for April 8:

- Continue drilling and Hydropunch sampling at 10' interval.

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From: Lee, Don

Sent: Thursday, April 04, 2013 4:54 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: RE: Drilling update - April 4, 2013

Completed today:

- Hydropunch sampling attempted at 120.5'. Sample collected.
- Hydropunch sampling attempted at 130.5'. Gravelly. Sample collected although sample appeared to contain some drilling mud.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

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From: Lee, Don
Sent: Wednesday, April 03, 2013 9:14 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov
Subject: Drilling update - April 3, 2013

Completed today:

- Hydropunch sampling attempted at 107', 109.5', and 112'. Hard gravel. Drilling mud in samples.
- Hydropunch sampling attempted at 115'. Sample collected although sample appears to contain some drilling mud.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval

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Chavira, Raymond

From: Mike.Grigorieff@CH2M.com
Sent: Friday, April 26, 2013 5:23 PM
To: Scott.Parsons@tetrattech.com
Cc: bradley.barquest@utc.com;Chavira, Raymond;Tom.Perina@CH2M.com
Subject: RE: Preliminary Design

Scott,

Can you tell me what are some of the specific areas you want to talk about? Knowing this, I can include the appropriate member(s) of our review team on the conference call, e.g. Instrumentation & Control Engineer, etc., and check on their availability as well.

Regards,

Mike

Mike Grigorieff, P.E.
Senior Technologist
Industrial Systems Water & Process

CH2M HILL
6 Hutton Centre Dr., Suite 700
Santa Ana, CA 92707
PH 714.435.6306
Fax 714.424.2052
Mgrigori@ch2m.com

From: Parsons, Scott [mailto:Scott.Parsons@tetrattech.com]
Sent: Friday, April 26, 2013 10:42 AM
To: Grigorieff, Mike/SCO; Chavira, Raymond (Chavira.Raymond@epa.gov)
Cc: Bradley A Barquest (bradley.barquest@utc.com)
Subject: Preliminary Design

Mike,

We would like to have a conference call to discuss the Preliminary Design comments. What is your availability next week?

Chavira, Raymond

From: Lee, Don <Don.Lee@tetrattech.com>
Sent: Monday, April 29, 2013 5:48 PM
To: Bradley.Barquest@utc.com;Parsons, Scott;Chavira, Raymond;Tom Perina (tom.perina@ch2m.com);Kerang.Sun@CH2M.com
Subject: RE: 13811 Amar Road piezometer drilling update - April 29, 2013

Completed today:

- Well development of 2 of the 4 nested piezometers.

Planned for tomorrow:

- Continue well development.

Please call if there are any questions.

Thanks
Don

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From: Lee, Don
Sent: Friday, April 26, 2013 4:05 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Subject: RE: 13811 Amar Road piezometer drilling update - April 26, 2013

Completed today:

- Completed initial well development of 4 nested piezometers.

Planned for Monday, April 29 to Wednesday, May 1, 2013:

- Final well development.
- Piezometer water sampling. One week turnaround time will be requested for laboratory analysis.
- Well elevation survey.

Please call if there are any questions.

Thanks
Don

Don Lee, PG, CHG | Senior Hydrogeologist
Direct: 949.809.5220 | Main: 949.809.5000 | Cell: 949.351.2192 | Fax: 949.809.5010

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From: Lee, Don

Sent: Thursday, April 25, 2013 5:41 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com

Subject: RE: 13811 Amar Road piezometer drilling update - April 25, 2013

Completed today:

- Constructed surface well box.
- Drill rig demobilization.

Planned for tomorrow:

- Initial well development.

Please call if there are any questions.

Thanks

Don

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From: Lee, Don

Sent: Wednesday, April 24, 2013 2:47 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com

Subject: RE: 13811 Amar Road piezometer drilling update - April 24, 2013

Please find attached draft table summarizing preliminary laboratory analysis results for all depth-discrete groundwater samples.

Completed April 22, 23 and 24:

- Reamed borehole to 360'.
- Placed a bentonite seal from bottom of borehole to approximately 325' prior to installing the piezometers.
- Completed installing 4 piezometers inside the borehole.

Planned for tomorrow:

- Construct surface well box.
- Drill rig demobilization.

Planned for Friday, April 25:

- Initial well development.

Please call if there are any questions.

Thanks

Don

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From: Lee, Don

Sent: Friday, April 19, 2013 4:13 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com

Subject: RE: 13811 Amar Road piezometer drilling update - April 19, 2013

Please find attached draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date (Sample results to 330').

Completed today:

- Hydropunch sampling attempted at 342'. Groundwater sample was collected.
- Drilled and logged lithology to 360' as requested by the EPA.
- Completed downhole geophysical logging. Files were provided to Tom Perina and Kerang Sun by email on April 19, 2013.

Planned for Monday, April 22:

- Ream and prepare borehole for piezometer installation.

Please call if there are any questions.

Thanks

Don

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From: Lee, Don
Sent: Thursday, April 18, 2013 4:43 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Cc: 'Brad.Barquest@comcast.net'
Subject: RE: 13811 Amar Road piezometer drilling update - April 18, 2013

Completed today:

- Hydropunch sampling attempted at 320.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 330'. Groundwater sample was collected.

Planned for tomorrow:

- Drill to 340' and collect last Hydropunch sample at approximately 343'.
- Geophysical logging.

Please call if there are any questions.

Thanks
Don

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From: Lee, Don
Sent: Wednesday, April 17, 2013 3:45 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Cc: 'Brad.Barquest@comcast.net'
Subject: RE: 13811 Amar Road piezometer drilling update - April 17, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date (Sample results to 270.5').

Completed today:

- Hydropunch sampling attempted at 300'. Groundwater sample was collected.
- Hydropunch sampling attempted at 310'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at approximately 10' interval.

Please call if there are any questions.

Thanks
Don

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From: Lee, Don

Sent: Tuesday, April 16, 2013 5:06 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com

Cc: 'Bradley.Barquest@comcast.net'

Subject: 13811 Amar Road piezometer drilling update - April 16, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date (Sample results to 253'). The current plan is to extend the drilling and depth-discrete groundwater sampling from 275 feet depth to approximately 340 feet depth.

Completed today:

- Hydropunch sampling attempted at 290'. Gravelly soil. Drilling mud was observed inside Hydropunch sampler. No groundwater sample was collected.
- Hydropunch sampling attempted at 293.5'. Dry even after opening additional length of sampler screen.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at approximately 10' interval.

Please call if there are any questions.

Thanks

Don

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From: Lee, Don

Sent: Monday, April 15, 2013 5:16 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Cc: 'Bradley.Barquest@comcast.net'

Subject: RE: Drilling update - April 15, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date. VOC concentrations in several samples are above the MCLs.

Completed today:

- Hydropunch sampling attempted at 260.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 270.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 280.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at approximately 10' interval.

Please call if there are any questions.

Thanks

Don

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From: Lee, Don

Sent: Friday, April 12, 2013 6:32 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Subject: RE: Drilling update - April 12, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date. VOC concentrations in several samples are above the MCLs.

Completed today:

- Hydropunch sampling attempted at 239'. Groundwater sample was collected.
- Hydropunch sampling attempted at 250'. Gravelly soil. Drilling mud was detected inside sampling rods before opening the Hydropunch sampler. No groundwater sample was collected.
- Hydropunch sampling attempted at 253'. Groundwater sample was collected.

Planned for April 15:

- Continue drilling and Hydropunch sampling at approximately 10' interval.
- Depth of 275' may be reached late Monday April 15 or Tuesday morning.
- Ream borehole on April 16.
- Geophysical logging on April 17.

Please call if there are any questions.

Thanks

Don

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From: Lee, Don
Sent: Friday, April 12, 2013 8:06 AM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)
Subject: RE: Drilling update - April 11, 2013

Completed on April 11:

- Hydropunch sampling attempted at 228'. Gravelly soil. Drilling mud was detected inside Hydropunch sampler. No groundwater sample was collected.
- Pull drilling rods and drill out blockage (likely cobbles) up inside drill shoe. Trip down drilling rods.

Planned for April 12:

- Continue drilling and Hydropunch sampling at 10' interval.

Please call if there are any questions.

Thanks
Don

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From: Lee, Don
Sent: Wednesday, April 10, 2013 8:10 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)
Subject: RE: Drilling update - April 10, 2013

Completed today:

- Hydropunch sampling attempted at 204'. Groundwater sample was collected.
- Hydropunch sampling attempted at 210.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 219.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

Please call if there are any questions.

Thanks
Don

Don Lee, PG, CHG | Senior Hydrogeologist
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From: Lee, Don
Sent: Tuesday, April 09, 2013 3:30 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)
Subject: RE: Drilling update - April 9, 2013

Completed today:

- Hydropunch sampling attempted at 181'. Groundwater sample was collected.
- Hydropunch sampling attempted at 191'. Groundwater sample was collected.
- Hydropunch sampling attempted at 200'. Drilling mud was detected inside sampling rods before opening the Hydropunch sampler. No groundwater sample was collected.

Planned for tomorrow:

- Drill to 203' and attempt Hydropunch sampling at approximately 206'.
- Continue drilling and Hydropunch sampling at 10' interval.

Please call if there are any questions.

Thanks
Don

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From: Lee, Don
Sent: Monday, April 08, 2013 4:34 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)
Subject: FW: Drilling update - April 8, 2013

Completed today:

- Hydropunch sampling attempted at 161'. Groundwater sample was collected.
- Hydropunch sampling attempted at 170.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

Don Lee, PG, CHG | Senior Hydrogeologist

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From: Lee, Don

Sent: Friday, April 05, 2013 5:01 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: RE: Drilling update - April 5, 2013 (updated)

Completed today:

- Hydropunch sampling attempted at 141'. Gravelly. Only able to penetrate 1'. Drilling mud in sample. No sample collected.
- Hydropunch sampling attempted at 146.5'. Soft clay. Dry.
- Hydropunch sampling attempted at 152'. Groundwater sample was collected.

Planned for April 8:

- Continue drilling and Hydropunch sampling at 10' interval.

Don Lee, PG, CHG | Senior Hydrogeologist

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From: Lee, Don

Sent: Friday, April 05, 2013 4:18 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: RE: Drilling update - April 5, 2013

Completed today:

- Hydropunch sampling attempted at 141'. Gravelly. Only able to penetrate 1'. Drilling mud in sample. No sample collected.
- Hydropunch sampling attempted at 146.5'. Soft clay. Dry.
- Hydropunch sampling being attempted at 150'.

Planned for April 8:

- Continue drilling and Hydropunch sampling at 10' interval.

Don Lee, PG, CHG | Senior Hydrogeologist

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From: Lee, Don

Sent: Thursday, April 04, 2013 4:54 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: RE: Drilling update - April 4, 2013

Completed today:

- Hydropunch sampling attempted at 120.5'. Sample collected.
- Hydropunch sampling attempted at 130.5'. Gravelly. Sample collected although sample appeared to contain some drilling mud.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

Don Lee, PG, CHG | Senior Hydrogeologist

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From: Lee, Don

Sent: Wednesday, April 03, 2013 9:14 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: Drilling update - April 3, 2013

Completed today:

- Hydropunch sampling attempted at 107', 109.5', and 112'. Hard gravel. Drilling mud in samples.
- Hydropunch sampling attempted at 115'. Sample collected although sample appears to contain some drilling mud.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval

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Chavira, Raymond

From: Lee, Don <Don.Lee@tetrattech.com>
Sent: Tuesday, April 30, 2013 5:17 PM
To: Bradley.Barquest@utc.com;Parsons, Scott;Chavira, Raymond;Tom Perina (tom.perina@ch2m.com);Kerang.Sun@CH2M.com
Subject: RE: 13811 Amar Road piezometer drilling update - April 30, 2013

Completed today:

- Well development of the remaining 2 of the 4 nested piezometers.
- Water sampling from the piezometers.

Planned for remainder of this and next week:

- Soil and water waste profiling
- Bin/tank removal
- Water level measuring
- Well surveying

Please call if there are any questions.

Thanks
Don

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From: Lee, Don
Sent: Monday, April 29, 2013 5:51 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Subject: RE: 13811 Amar Road piezometer drilling update - April 29, 2013

Completed today:

- Well development of 2 of the 4 nested piezometers.

Planned for tomorrow:

- Continue well development.

Please call if there are any questions.

Thanks
Don

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From: Lee, Don
Sent: Friday, April 26, 2013 4:05 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Subject: RE: 13811 Amar Road piezometer drilling update - April 26, 2013

Completed today:

- Completed initial well development of 4 nested piezometers.

Planned for Monday, April 29 to Wednesday, May 1, 2013:

- Final well development.
- Piezometer water sampling. One week turnaround time will be requested for laboratory analysis.
- Well elevation survey.

Please call if there are any questions.

Thanks
Don

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From: Lee, Don
Sent: Thursday, April 25, 2013 5:41 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Subject: RE: 13811 Amar Road piezometer drilling update - April 25, 2013

Completed today:

- Constructed surface well box.
- Drill rig demobilization.

Planned for tomorrow:

- Initial well development.

Please call if there are any questions.

Thanks
Don

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From: Lee, Don
Sent: Wednesday, April 24, 2013 2:47 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com
Subject: RE: 13811 Amar Road piezometer drilling update - April 24, 2013

Please find attached draft table summarizing preliminary laboratory analysis results for all depth-discrete groundwater samples.

Completed April 22, 23 and 24:

- Reamed borehole to 360'.
- Placed a bentonite seal from bottom of borehole to approximately 325' prior to installing the piezometers.
- Completed installing 4 piezometers inside the borehole.

Planned for tomorrow:

- Construct surface well box.
- Drill rig demobilization.

Planned for Friday, April 25:

- Initial well development.

Please call if there are any questions.

Thanks
Don

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From: Lee, Don
Sent: Friday, April 19, 2013 4:13 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina

(tom.perina@ch2m.com); Kerang.Sun@CH2M.com

Subject: RE: 13811 Amar Road piezometer drilling update - April 19, 2013

Please find attached draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date (Sample results to 330').

Completed today:

- Hydropunch sampling attempted at 342'. Groundwater sample was collected.
- Drilled and logged lithology to 360' as requested by the EPA.
- Completed downhole geophysical logging. Files were provided to Tom Perina and Kerang Sun by email on April 19, 2013.

Planned for Monday, April 22:

- Ream and prepare borehole for piezometer installation.

Please call if there are any questions.

Thanks

Don

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From: Lee, Don

Sent: Thursday, April 18, 2013 4:43 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com

Cc: 'Brad.Barquest@comcast.net'

Subject: RE: 13811 Amar Road piezometer drilling update - April 18, 2013

Completed today:

- Hydropunch sampling attempted at 320.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 330'. Groundwater sample was collected.

Planned for tomorrow:

- Drill to 340' and collect last Hydropunch sample at approximately 343'.
- Geophysical logging.

Please call if there are any questions.

Thanks

Don

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From: Lee, Don

Sent: Wednesday, April 17, 2013 3:45 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com

Cc: 'Brad.Barquest@comcast.net'

Subject: RE: 13811 Amar Road piezometer drilling update - April 17, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date (Sample results to 270.5').

Completed today:

- Hydropunch sampling attempted at 300'. Groundwater sample was collected.
- Hydropunch sampling attempted at 310'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at approximately 10' interval.

Please call if there are any questions.

Thanks

Don

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From: Lee, Don

Sent: Tuesday, April 16, 2013 5:06 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com); Kerang.Sun@CH2M.com

Cc: 'Bradley.Barquest@comcast.net'

Subject: 13811 Amar Road piezometer drilling update - April 16, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date (Sample results to 253'). The current plan is to extend the drilling and depth-discrete groundwater sampling from 275 feet depth to approximately 340 feet depth.

Completed today:

- Hydropunch sampling attempted at 290'. Gravelly soil. Drilling mud was observed inside Hydropunch sampler. No groundwater sample was collected.

- Hydropunch sampling attempted at 293.5'. Dry even after opening additional length of sampler screen.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at approximately 10' interval.

Please call if there are any questions.

Thanks

Don

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From: Lee, Don

Sent: Monday, April 15, 2013 5:16 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Cc: 'Bradley.Barquest@comcast.net'

Subject: RE: Drilling update - April 15, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date. VOC concentrations in several samples are above the MCLs.

Completed today:

- Hydropunch sampling attempted at 260.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 270.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 280.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at approximately 10' interval.

Please call if there are any questions.

Thanks

Don

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From: Lee, Don
Sent: Friday, April 12, 2013 6:32 PM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)
Subject: RE: Drilling update - April 12, 2013

Please find attached a draft table summarizing preliminary depth-discrete groundwater laboratory analysis results received to date. VOC concentrations in several samples are above the MCLs.

Completed today:

- Hydropunch sampling attempted at 239'. Groundwater sample was collected.
- Hydropunch sampling attempted at 250'. Gravelly soil. Drilling mud was detected inside sampling rods before opening the Hydropunch sampler. No groundwater sample was collected.
- Hydropunch sampling attempted at 253'. Groundwater sample was collected.

Planned for April 15:

- Continue drilling and Hydropunch sampling at approximately 10' interval.
- Depth of 275' may be reached late Monday April 15 or Tuesday morning.
- Ream borehole on April 16.
- Geophysical logging on April 17.

Please call if there are any questions.

Thanks
Don

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From: Lee, Don
Sent: Friday, April 12, 2013 8:06 AM
To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)
Subject: RE: Drilling update - April 11, 2013

Completed on April 11:

- Hydropunch sampling attempted at 228'. Gravelly soil. Drilling mud was detected inside Hydropunch sampler. No groundwater sample was collected.
- Pull drilling rods and drill out blockage (likely cobbles) up inside drill shoe. Trip down drilling rods.

Planned for April 12:

- Continue drilling and Hydropunch sampling at 10' interval.

Please call if there are any questions.

Thanks

Don

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From: Lee, Don

Sent: Wednesday, April 10, 2013 8:10 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Subject: RE: Drilling update - April 10, 2013

Completed today:

- Hydropunch sampling attempted at 204'. Groundwater sample was collected.
- Hydropunch sampling attempted at 210.5'. Groundwater sample was collected.
- Hydropunch sampling attempted at 219.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

Please call if there are any questions.

Thanks

Don

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From: Lee, Don

Sent: Tuesday, April 09, 2013 3:30 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Subject: RE: Drilling update - April 9, 2013

Completed today:

- Hydropunch sampling attempted at 181'. Groundwater sample was collected.
- Hydropunch sampling attempted at 191'. Groundwater sample was collected.
- Hydropunch sampling attempted at 200'. Drilling mud was detected inside sampling rods before opening the Hydropunch sampler. No groundwater sample was collected.

Planned for tomorrow:

- Drill to 203' and attempt Hydropunch sampling at approximately 206'.
- Continue drilling and Hydropunch sampling at 10' interval.

Please call if there are any questions.

Thanks

Don

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From: Lee, Don

Sent: Monday, April 08, 2013 4:34 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epamail.epa.gov; Tom Perina (tom.perina@ch2m.com)

Subject: FW: Drilling update - April 8, 2013

Completed today:

- Hydropunch sampling attempted at 161'. Groundwater sample was collected.
- Hydropunch sampling attempted at 170.5'. Groundwater sample was collected.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

Don Lee, PG, CHG | Senior Hydrogeologist

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From: Lee, Don

Sent: Friday, April 05, 2013 5:01 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: RE: Drilling update - April 5, 2013 (updated)

Completed today:

- Hydropunch sampling attempted at 141'. Gravelly. Only able to penetrate 1'. Drilling mud in sample. No sample collected.
- Hydropunch sampling attempted at 146.5'. Soft clay. Dry.
- Hydropunch sampling attempted at 152'. Groundwater sample was collected.

Planned for April 8:

- Continue drilling and Hydropunch sampling at 10' interval.

Don Lee, PG, CHG | Senior Hydrogeologist

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From: Lee, Don

Sent: Friday, April 05, 2013 4:18 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: RE: Drilling update - April 5, 2013

Completed today:

- Hydropunch sampling attempted at 141'. Gravelly. Only able to penetrate 1'. Drilling mud in sample. No sample collected.
- Hydropunch sampling attempted at 146.5'. Soft clay. Dry.
- Hydropunch sampling being attempted at 150'.

Planned for April 8:

- Continue drilling and Hydropunch sampling at 10' interval.

Don Lee, PG, CHG | Senior Hydrogeologist

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From: Lee, Don

Sent: Thursday, April 04, 2013 4:54 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: RE: Drilling update - April 4, 2013

Completed today:

- Hydropunch sampling attempted at 120.5'. Sample collected.
- Hydropunch sampling attempted at 130.5'. Gravelly. Sample collected although sample appeared to contain some drilling mud.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval.

Don Lee, PG, CHG | Senior Hydrogeologist

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From: Lee, Don

Sent: Wednesday, April 03, 2013 9:14 PM

To: Bradley.Barquest@utc.com; Parsons, Scott; Chavira.Raymond@epa.gov

Subject: Drilling update - April 3, 2013

Completed today:

- Hydropunch sampling attempted at 107', 109.5', and 112'. Hard gravel. Drilling mud in samples.
- Hydropunch sampling attempted at 115'. Sample collected although sample appears to contain some drilling mud.

Planned for tomorrow:

- Continue drilling and Hydropunch sampling at 10' interval

Don Lee, PG, CHG | Senior Hydrogeologist

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